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* * * * * * * * * * Welcome to STN International * * * * * * * * * *

NEWS 1		Web Page for STN Seminar Schedule - N. America
NEWS 2	JAN 08	CHEMLIST enhanced with New Zealand Inventory of Chemicals
NEWS 3	JAN 16	CA/CAplus Company Name Thesaurus enhanced and reloaded
NEWS 4	JAN 16	IPC version 2007.01 thesaurus available on STN
NEWS 5	JAN 16	WPIDS/WPINDEX/WPIX enhanced with IPC 8 reclassification data
NEWS 6	JAN 22	CA/CAplus updated with revised CAS roles
NEWS 7	JAN 22	CA/CAplus enhanced with patent applications from India
NEWS 8	JAN 29	PHAR reloaded with new search and display fields
NEWS 9	JAN 29	CAS Registry Number crossover limit increased to 300,000 in multiple databases
NEWS 10	FEB 15	PATDPASPC enhanced with Drug Approval numbers
NEWS 11	FEB 15	RUSSIAPAT enhanced with pre-1994 records
NEWS 12	FEB 23	KOREAPAT enhanced with IPC 8 features and functionality
NEWS 13	FEB 26	MEDLINE reloaded with enhancements
NEWS 14	FEB 26	EMBASE enhanced with Clinical Trial Number field
NEWS 15	FEB 26	TOXCENTER enhanced with reloaded MEDLINE
NEWS 16	FEB 26	IFICDB/IFIPAT/IFIUDB reloaded with enhancements
NEWS 17	FEB 26	CAS Registry Number crossover limit increased from 10,000 to 300,000 in multiple databases
NEWS 18	MAR 15	WPIDS/WPIX enhanced with new FRAGHITSTR display format
NEWS 19	MAR 16	CASREACT coverage extended
NEWS 20	MAR 20	MARPAT now updated daily
NEWS 21	MAR 22	LWPI reloaded
NEWS 22	MAR 30	RDISCLOSURE reloaded with enhancements
NEWS 23	APR 02	JICST-EPLUS removed from database clusters and STN
NEWS 24	APR 30	GENBANK reloaded and enhanced with Genome Project ID field
NEWS 25	APR 30	CHEMCATS enhanced with 1.2 million new records
NEWS 26	APR 30	CA/CAplus enhanced with 1870-1889 U.S. patent records
NEWS 27	APR 30	INPADOC replaced by INPADOCDB on STN
NEWS 28	MAY 01	New CAS web site launched
NEWS 29	MAY 08	CA/CAplus Indian patent publication number format defined
NEWS 30	MAY 14	RDISCLOSURE on STN Easy enhanced with new search and display fields
NEWS EXPRESS		NOVEMBER 10 CURRENT WINDOWS VERSION IS V8.01c, CURRENT MACINTOSH VERSION IS V6.0c(ENG) AND V6.0Jc(JP), AND CURRENT DISCOVER FILE IS DATED 25 SEPTEMBER 2006.
NEWS HOURS		STN Operating Hours Plus Help Desk Availability
NEWS LOGIN		Welcome Banner and News Items
NEWS IPC8		For general information regarding STN implementation of IPC 8

Enter NEWS followed by the item number or name to see news on that specific topic.

* * * * * * * * * * * * * * * * STN Columbus * * * * * * * * * * * * * * * *

FILE 'HOME' ENTERED AT 09:07:49 ON 21 MAY 2007

=> file reg

COST IN U.S. DOLLARS	SINCE FILE ENTRY	TOTAL SESSION
FULL ESTIMATED COST	0.21	0.21

FILE 'REGISTRY' ENTERED AT 09:07:57 ON 21 MAY 2007
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Property values tagged with IC are from the ZIC/VINITI data file provided by InfoChem.

STRUCTURE FILE UPDATES: 18 MAY 2007 HIGHEST RN 935394-90-4
DICTIONARY FILE UPDATES: 18 MAY 2007 HIGHEST RN 935394-90-4

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TSCA INFORMATION NOW CURRENT THROUGH December 2, 2006

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REGISTRY includes numerically searchable data for experimental and predicted properties as well as tags indicating availability of experimental property data in the original document. For information on property searching in REGISTRY, refer to:

http://www.cas.org/support/stngen/stndoc/properties.html

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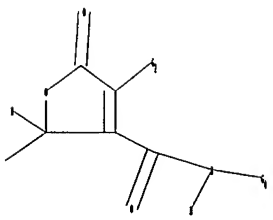

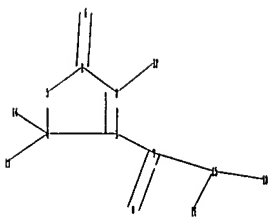

chain nodes :
6 7 8 12 14 15 16 18
ring nodes :
1 2 3 4 5
ring/chain nodes :
11
chain bonds :
1-6 2-12 3-7 4-11 4-14 7-8 7-15 15-16 15-18
ring bonds :
1-2 1-5 2-3 3-4 4-5
exact/norm bonds :
1-6 2-12 7-8 7-15 15-18
exact bonds :
1-2 1-5 2-3 3-4 3-7 4-5 4-11 4-14 15-16
isolated ring systems :
containing 1 :

G1:O,N

G2:C,H,Cy

G3:C,H,O,OH,X,Cb

G4:C,H,O,OH,X,Cb

Match level :
1:Atom 2:Atom 3:Atom 4:Atom 5:Atom 6:CLASS 7:CLASS 8:CLASS 11:CLASS
12:CLASS 14:CLASS 15:CLASS 16:CLASS 18:CLASS

L1 STRUCTURE UPLOADED

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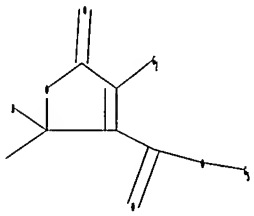
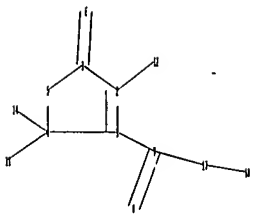
Uploading C:\Program Files\Stnexp\Queries\10519804e.str





chain nodes :
6 7 8 12 14 17 18

ring nodes :
1 2 3 4 5
ring/chain nodes :
11
chain bonds :
1-6 2-12 3-7 4-11 4-14 7-8 7-17 17-18
ring bonds :
1-2 1-5 2-3 3-4 4-5
exact/norm bonds :
1-6 2-12 7-8 7-17 17-18
exact bonds :
1-2 1-5 2-3 3-4 3-7 4-5 4-11 4-14
isolated ring systems :
containing 1 :

G1:O,N

G2:C,H,Cy

G3:C,H,O,OH,X,Cb

G4:C,H,O,OH,X,Cb

G5:C,O,OH,X,Cy

Match level :
1:Atom 2:Atom 3:Atom 4:Atom 5:Atom 6:CLASS 7:CLASS 8:CLASS 11:CLASS
12:CLASS 14:CLASS 17:CLASS 18:CLASS

L2 STRUCTURE UPLOADED

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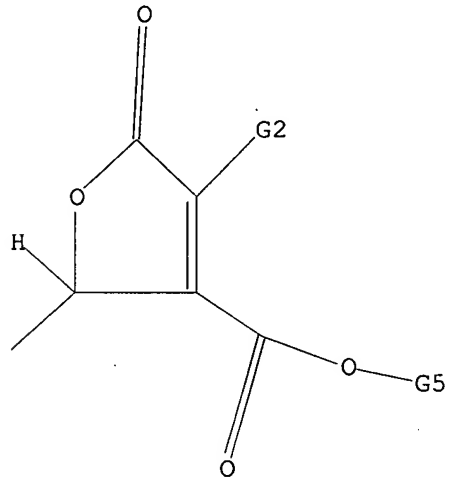
L2 HAS NO ANSWERS
L2 STR



G1 O,N

G2 C,H,Cy

G3 C,H,O,OH,X,Cb

G4 C,H,O,OH,X,Cb

G5 C,O,OH,X,Cy

Structure attributes must be viewed using STN Express query preparation.

=> s l2
SAMPLE SEARCH INITIATED 09:09:36 FILE 'REGISTRY'
SAMPLE SCREEN SEARCH COMPLETED - 147 TO ITERATE

100.0% PROCESSED 147 ITERATIONS 1 ANSWERS
SEARCH TIME: 00.00.01

FULL FILE PROJECTIONS: ONLINE **COMPLETE**
BATCH **COMPLETE**
PROJECTED ITERATIONS: 2213 TO 3667
PROJECTED ANSWERS: 1 TO 80

L3 1 SEA SSS SAM L2

=> s l2 full
FULL SEARCH INITIATED 09:09:40 FILE 'REGISTRY'
FULL SCREEN SEARCH COMPLETED - 3008 TO ITERATE

100.0% PROCESSED 3008 ITERATIONS 53 ANSWERS
SEARCH TIME: 00.00.01

L4 53 SEA SSS FUL L2

=> file caplus
COST IN U.S. DOLLARS SINCE FILE ENTRY TOTAL SESSION
FULL ESTIMATED COST 173.00 173.21

FILE 'CAPLUS' ENTERED AT 09:09:44 ON 21 MAY 2007
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FILE COVERS 1907 - 21 May 2007 VOL 146 ISS 22
FILE LAST UPDATED: 20 May 2007 (20070520/ED)

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They are available for your review at:

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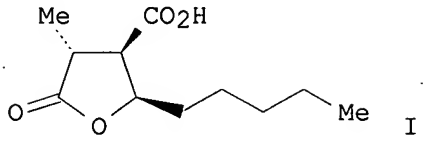
=> s l4 full
L5 41 L4

=> d ibib abs hitstr 1-10

L5 ANSWER 1 OF 41 CAPLUS COPYRIGHT 2007 ACS on STN
ACCESSION NUMBER: 2007:187851 CAPLUS
DOCUMENT NUMBER: 146:421762
TITLE: Synthesis of substituted butenolides by the ring closing metathesis of two electron deficient olefins:

	a general route to the natural products of paraconic acids class
AUTHOR(S):	Selvakumar, N.; Kumar, P. Kalyan; Reddy, K. Chandra Shekar; Chary, B. Chandra
CORPORATE SOURCE:	Department of Discovery Chemistry, Discovery Research, Dr. Reddy's Laboratories Ltd., Miyapur, Hyderabad, 500 049, India
SOURCE:	Tetrahedron Letters (2007), 48(11), 2021-2024 CODEN: TELEAY; ISSN: 0040-4039
PUBLISHER:	Elsevier Ltd.
DOCUMENT TYPE:	Journal
LANGUAGE:	English

GI



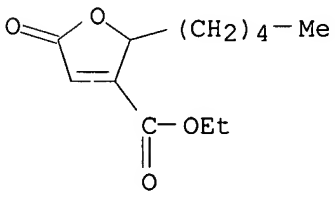
I

AB A variety of allyl acrylates possessing electron-withdrawing groups undergo RCM using the second generation Grubbs' catalyst in the presence of a Lewis acid resulting in diverse butenolides in high isolated yields. This methodol. provides a general route to the natural products of paraconic acids class, exemplified by a total synthesis of (±)-phaseolinic acid (I).

IT 934396-89-1P
RL: RCT (Reactant); SPN (Synthetic preparation); PREP (Preparation); RACT (Reactant or reagent)
(stereoselective synthesis of substituted butenolides by the ring closing metathesis of two electron deficient olefins with application the the synthesis of the paraconic acid, (±)-phaseolinic acid)

RN 934396-89-1 CAPLUS

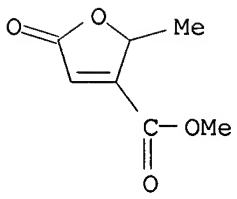
CN 3-Furancarboxylic acid, 2,5-dihydro-5-oxo-2-pentyl-, ethyl ester (CA INDEX NAME)



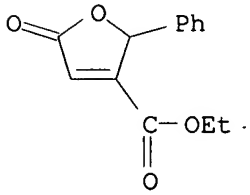
IT 188567-44-4P 244267-64-9P 934396-93-7P
934396-95-9P 934396-98-2P
RL: SPN (Synthetic preparation); PREP (Preparation)
(stereoselective synthesis of substituted butenolides by the ring closing metathesis of two electron deficient olefins with application the the synthesis of the paraconic acid, (±)-phaseolinic acid)

RN 188567-44-4 CAPLUS

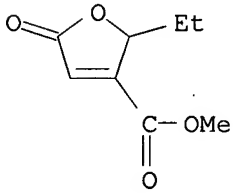
CN 3-Furancarboxylic acid, 2,5-dihydro-2-methyl-5-oxo-, methyl ester (CA INDEX NAME)



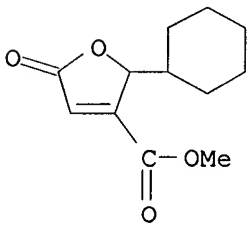
RN 244267-64-9 CAPLUS
CN 3-Furancarboxylic acid, 2,5-dihydro-5-oxo-2-phenyl-, ethyl ester (CA INDEX NAME)



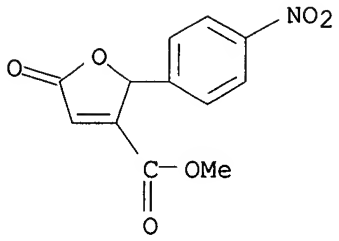
RN 934396-93-7 CAPLUS
CN 3-Furancarboxylic acid, 2-ethyl-2,5-dihydro-5-oxo-, methyl ester (CA INDEX NAME)



RN 934396-95-9 CAPLUS
CN 3-Furancarboxylic acid, 2-cyclohexyl-2,5-dihydro-5-oxo-, methyl ester (CA INDEX NAME)

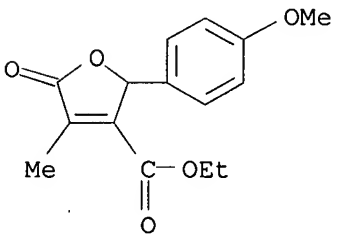


RN 934396-98-2 CAPLUS
CN 3-Furancarboxylic acid, 2,5-dihydro-2-(4-nitrophenyl)-5-oxo-, methyl ester (CA INDEX NAME)



REFERENCE COUNT: 25 THERE ARE 25 CITED REFERENCES AVAILABLE FOR THIS RECORD. ALL CITATIONS AVAILABLE IN THE RE FORMAT

L5 ANSWER 2 OF 41 CAPLUS COPYRIGHT 2007 ACS on STN
ACCESSION NUMBER: 2006:1322900 CAPLUS
DOCUMENT NUMBER: 146:229102
TITLE: Synthesis of β,β-disubstituted-α-methylene-γ-butyrolactones via the regioselective oxidation of exo-methylenetetrahydrofurans
AUTHOR(S): Gowrisankar, Saravanan; Kim, Seong Jin; Kim, Jae Nyoung
CORPORATE SOURCE: Department of Chemistry, Institute of Basic Science, Chonnam National University, Gwangju, 500-757, S. Korea
SOURCE: Tetrahedron Letters (2006), Volume Date 2007, 48(2), 289-292
CODEN: TELEAY; ISSN: 0040-4039
PUBLISHER: Elsevier Ltd.
DOCUMENT TYPE: Journal
LANGUAGE: English
OTHER SOURCE(S): CASREACT 146:229102
AB The synthesis of various β,β-disubstituted-α-methylene-γ-butyrolactones was carried out from the corresponding methylenetetrahydrofuran derivs. by using PCC/Ac2O or Jones oxidation conditions.
IT 924268-68-8P
RL: SPN (Synthetic preparation); PREP (Preparation)
(preparation of β,β-disubstituted-α-methylene-γ-butyrolactones via regioselective oxidation of exo-methylenetetrahydrofurans using PCC/Ac2O or Jones oxidation conditions)
RN 924268-68-8 CAPLUS
CN 3-Furancarboxylic acid, 2,5-dihydro-2-(4-methoxyphenyl)-4-methyl-5-oxo-, ethyl ester (CA INDEX NAME)



REFERENCE COUNT: 37 THERE ARE 37 CITED REFERENCES AVAILABLE FOR THIS RECORD. ALL CITATIONS AVAILABLE IN THE RE FORMAT

L5 ANSWER 3 OF 41 CAPLUS COPYRIGHT 2007 ACS on STN
ACCESSION NUMBER: 2006:1048375 CAPLUS
DOCUMENT NUMBER: 146:45318
TITLE: Analogs of the Quararibea metabolite chiral enolic-γ-lactone from (2S,3S)- and

(2S,3R)-tetrahydro-3-hydroxy-5-oxo-2,3-furandicarboxylic acids

AUTHOR(S): Gopinath, Chithra; Thomas, Salini; Nair, Mangalam S.; Ibnusaud, Ibrahim

CORPORATE SOURCE: School of Chemical Sciences, Mahatma Gandhi University, Kerala, 686 560, India

SOURCE: Tetrahedron Letters (2006), 47(45), 7957-7960
CODEN: TELEAY; ISSN: 0040-4039

PUBLISHER: Elsevier Ltd.

DOCUMENT TYPE: Journal

LANGUAGE: English

OTHER SOURCE(S): CASREACT 146:45318

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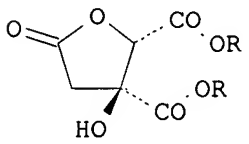

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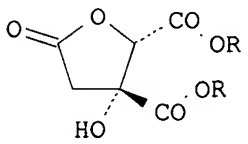


II

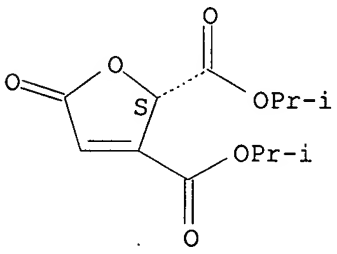
AB Reaction of dialkyl (2S,3S)- or (2S,3R)-tetrahydro-3-hydroxy-5-oxo-2,3-furandicarboxylates I and II (R = Me, Et, CH2Ph, CHMe2), resp., with POCl3 in pyridine followed by diazomethane resulted in the isolation of dialkyl 2S-4-methoxy-5-oxo-2,5-dihydro-2,3-furandicarboxylates, which are analogs of the Quararibea metabolite chiral enolic-γ-lactone (3-hydroxy-4,5-(R)-dimethyl-2(5H)-furanone). An unusual α-hydroxylation of γ-butyrolactone takes place involving POCl3 in pyridine. When the dehydration was facilitated with methanesulfonyl chloride in triethylamine, instead of POCl3, aromatic dialkyl 5-[(methylsulfonyl)oxy]-2,3-furandicarboxylates were obtained.

IT 916330-12-6P
RL: SPN (Synthetic preparation); PREP (Preparation)
(asym. synthesis of analogs of the Quararibea metabolite chiral enolic-γ-lactone from (2S,3S)- and (2S,3R)-tetrahydro-3-hydroxy-5-oxo-2,3-furandicarboxylic acids)

RN 916330-12-6 CAPLUS

CN 2,3-Furandicarboxylic acid, 2,5-dihydro-5-oxo-, 2,3-bis(1-methylethyl) ester, (2S)- (CA INDEX NAME)

Absolute stereochemistry. Rotation (-).



REFERENCE COUNT: 32 THERE ARE 32 CITED REFERENCES AVAILABLE FOR THIS RECORD. ALL CITATIONS AVAILABLE IN THE RE FORMAT

L5 ANSWER 4 OF 41 CAPLUS COPYRIGHT 2007 ACS on STN

ACCESSION NUMBER: 2006:904065 CAPLUS

DOCUMENT NUMBER: 145:471280

TITLE: Dibromomethane as one-carbon source in organic synthesis: total synthesis of (±)-canadensolide

AUTHOR(S): Hon, Yung-Son; Hsieh, Cheng-Han

CORPORATE SOURCE: Department of Chemistry and Biochemistry, National

	Chung Cheng University, Chia-Yi, 62102, Taiwan
SOURCE:	Tetrahedron (2006), 62(41), 9713-9717 CODEN: TETRAB; ISSN: 0040-4020
PUBLISHER:	Elsevier Ltd.
DOCUMENT TYPE:	Journal
LANGUAGE:	English
OTHER SOURCE(S):	CASREACT 145:471280

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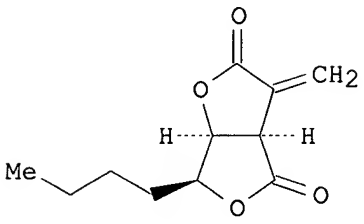

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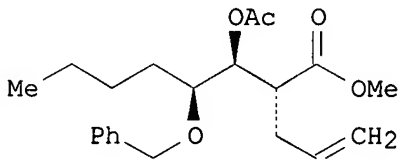


II

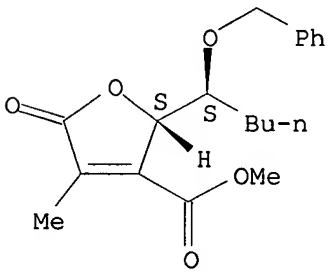
AB A diastereoselective total synthesis of (±)-canadensolide (I) is described. The key step is to introduce the α-methylene group by the ozonolysis of mono-substituted alkene II followed by reaction with a preheated mixture of CH2Br2-Et2NH.

IT 913646-45-4P
RL: SPN (Synthetic preparation); PREP (Preparation)
(diastereoselective total synthesis of (±)-canadensolide via ozonolysis)

RN 913646-45-4 CAPLUS

CN 3-Furancarboxylic acid, 2,5-dihydro-4-methyl-5-oxo-2-[(1R)-1-(phenylmethoxy)pentyl]-, methyl ester, (2R)-rel- (9CI) (CA INDEX NAME)

Relative stereochemistry.



REFERENCE COUNT:	36	THERE ARE 36 CITED REFERENCES AVAILABLE FOR THIS RECORD. ALL CITATIONS AVAILABLE IN THE RE FORMAT

L5 ANSWER 5 OF 41 CAPLUS COPYRIGHT 2007 ACS on STN

ACCESSION NUMBER:	2005:1144433 CAPLUS
DOCUMENT NUMBER:	144:51365
TITLE:	Synthesis of isotetronic acids by cyclization of 1,3-bis(trimethylsilyloxy)alk-1-enes with oxalyl chloride
AUTHOR(S):	Dede, Ruediger; Michaelis, Lars; Langer, Peter
CORPORATE SOURCE:	Institut fuer Chemie, Universitaet Rostock, Rostock, 18059, Germany
SOURCE:	Tetrahedron Letters (2005), 46(47), 8129-8131 CODEN: TELEAY; ISSN: 0040-4039
PUBLISHER:	Elsevier B.V.
DOCUMENT TYPE:	Journal
LANGUAGE:	English
OTHER SOURCE(S):	CASREACT 144:51365

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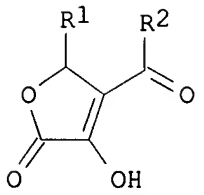


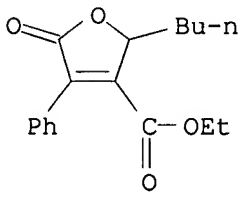
I

AB Isotetronic acids I (R1 = Me, Et, n-Pr, CHMe2, n-Bu, CHMeEt, CMe3, n-hexyl, CH:CH2, Ph, R2 = OEt, OMe) were regioselectively prepared by cyclization of 1,3-bis(trimethylsilyloxy)alk-1-enes R1CH(OSiMe3)CH:C(R2)OSiMe3 with oxalyl chloride.

IT 871108-30-4P
RL: SPN (Synthetic preparation); PREP (Preparation)
(preparation of isotetronic acids by cyclization of 1,3-bis(trimethylsilyloxy)alk-1-enes with oxalyl chloride)

RN 871108-30-4 CAPLUS

CN 3-Furancarboxylic acid, 2-butyl-2,5-dihydro-5-oxo-4-phenyl-, ethyl ester (9CI) (CA INDEX NAME)



REFERENCE COUNT: 44 THERE ARE 44 CITED REFERENCES AVAILABLE FOR THIS RECORD. ALL CITATIONS AVAILABLE IN THE RE FORMAT

L5 ANSWER 6 OF 41 CAPLUS COPYRIGHT 2007 ACS on STN

ACCESSION NUMBER: 2005:162266 CAPLUS

DOCUMENT NUMBER: 142:392202

TITLE: Dibromomethane as one-carbon source in organic synthesis: total synthesis of (±)- and (-)-methylenolactocin

AUTHOR(S): Hon, Yung-Son; Hsieh, Cheng-Han; Liu, Yu-Wei

CORPORATE SOURCE: Department of Chemistry and Biochemistry, National Chung Cheng University, Chia-Yi 621, Taiwan, 621, Peop. Rep. China

SOURCE: Tetrahedron (2005), 61(10), 2713-2723
CODEN: TETRAB; ISSN: 0040-4020

PUBLISHER: Elsevier B.V.

DOCUMENT TYPE: Journal

LANGUAGE: English

OTHER SOURCE(S): CASREACT 142:392202

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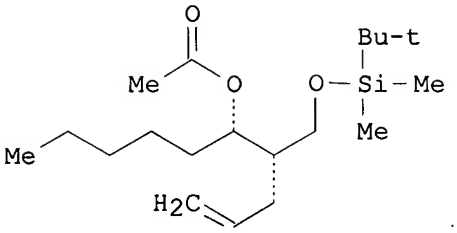

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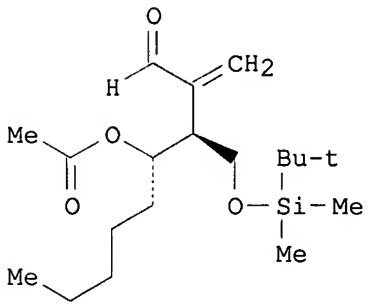


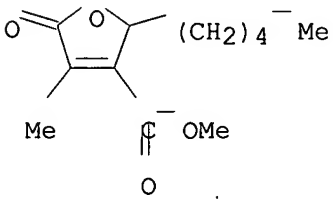
II

AB A general method was developed to construct monocyclic α-methylene-γ-butyrolactone moiety. The key step is to introduce the α-methylene group by the ozonolysis of mono-substituted alkenes followed by reacting with a preheated mixture of CH2Br2-Et2NH. Application of this key step in the total synthesis of the (±)- and (-)-methylenolactocin was described. Thus, ozonolysis and methylenation of (-)-pentenyl ester I gave methylene aldehyde II which was converted to (-)-methylenolactocin.

IT 180524-09-8P
RL: SPN (Synthetic preparation); PREP (Preparation)
(total synthesis of (±)- and (-)-methylenolactocin via ozonolysis-methylenation)

RN 180524-09-8 CAPLUS

CN 3-Furancarboxylic acid, 2,5-dihydro-4-methyl-5-oxo-2-pentyl-, methyl ester (9CI) (CA INDEX NAME)



REFERENCE COUNT: 78 THERE ARE 78 CITED REFERENCES AVAILABLE FOR THIS RECORD. ALL CITATIONS AVAILABLE IN THE RE FORMAT

L5 ANSWER 7 OF 41 CAPLUS COPYRIGHT 2007 ACS on STN

ACCESSION NUMBER: 1999:461987 CAPLUS

DOCUMENT NUMBER: 131:243127

TITLE: Thiyl radical induced isomerizations of maleate esters provide a convenient route to fumarates and furanones

AUTHOR(S): Harrowven, David C.; Hannam, Joanne C.

CORPORATE SOURCE: Department of Chemistry, The University, Southampton, SO17 1BJ, UK

SOURCE: Tetrahedron (1999), 55(30), 9341-9346
CODEN: TETRAB; ISSN: 0040-4020

PUBLISHER: Elsevier Science Ltd.

DOCUMENT TYPE: Journal

LANGUAGE: English

OTHER SOURCE(S): CASREACT 131:243127

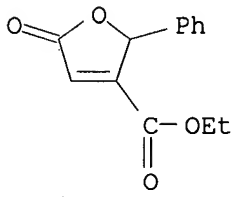
AB Maleate esters can be converted into fumarate esters in near quant. yield through exposure to thiyl radicals generated in refluxing hexane by photolysis of di-Ph disulfide. When conditions are applied to dialkyl (hydroxyalkyl)maleate esters, 2(5H)-furanones are given in good yield.

IT 244267-64-9P 244267-65-0P

RL: SPN (Synthetic preparation); PREP (Preparation)
(thiyl radical induced isomerizations of maleate esters)

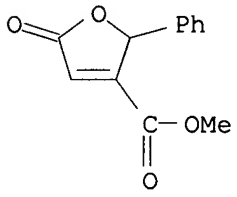
RN 244267-64-9 CAPLUS

CN 3-Furancarboxylic acid, 2,5-dihydro-5-oxo-2-phenyl-, ethyl ester (CA INDEX NAME)



RN 244267-65-0 CAPLUS

CN 3-Furancarboxylic acid, 2,5-dihydro-5-oxo-2-phenyl-, methyl ester (9CI) (CA INDEX NAME)



REFERENCE COUNT: 23 THERE ARE 23 CITED REFERENCES AVAILABLE FOR THIS RECORD. ALL CITATIONS AVAILABLE IN THE RE FORMAT

L5 ANSWER 8 OF 41 CAPLUS COPYRIGHT 2007 ACS on STN

ACCESSION NUMBER: 1999:210866 CAPLUS

DOCUMENT NUMBER: 131:58675

TITLE: New radical reactions of S-alkoxycarbonyl xanthates. Total synthesis of (±)-cinnamolide and (±)-methylenolactocin

AUTHOR(S): Forbes, Judith E.; Saicic, Radomir N.; Zard, Samir Z.

CORPORATE SOURCE: Institut de Chimie des Substances Naturelles, CNRS, Gif sur Yvette, 91198, Fr.

SOURCE: Tetrahedron (1999), 55(12), 3791-3802
CODEN: TETRAB; ISSN: 0040-4020

PUBLISHER: Elsevier Science Ltd.

DOCUMENT TYPE: Journal

LANGUAGE: English

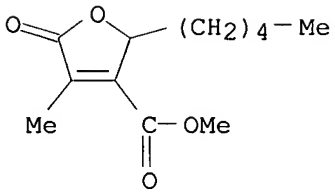
OTHER SOURCE(S): CASREACT 131:58675

AB Irradiation with visible light of S-alkoxycarbonyl xanthates derived from various alcs. gave alkoxycarbonyl radicals with bifurcate reactivity. Loss of carbon dioxide led to deoxygenated derivs. (i.e. alkyl xanthates) where intramol. addition to a suitably located double bond produced lactones. These new reactions were applied to the total synthesis of (±)-cinnamolide and (±)-methylenolactocin.

IT 180524-09-8P
RL: SPN (Synthetic preparation); PREP (Preparation)
(total synthesis of (±)-cinnamolide and (±)-methylenolactocin via radical reactions of S-alkoxycarbonyl xanthates)

RN 180524-09-8 CAPLUS

CN 3-Furancarboxylic acid, 2,5-dihydro-4-methyl-5-oxo-2-pentyl-, methyl ester (9CI) (CA INDEX NAME)



REFERENCE COUNT: 52 THERE ARE 52 CITED REFERENCES AVAILABLE FOR THIS RECORD. ALL CITATIONS AVAILABLE IN THE RE FORMAT

L5 ANSWER 9 OF 41 CAPLUS COPYRIGHT 2007 ACS on STN
ACCESSION NUMBER: 1998:169746 CAPLUS
DOCUMENT NUMBER: 128:204723
TITLE: Synthesis of (+)- and (-)-Phaseolinic Acid by Combination of Enzymic Hydrolysis and Chemical Transformations with Revision of the Absolute Configuration of the Natural Product
AUTHOR(S): Drioli, Sara; Felluga, Fulvia; Forzato, Cristina; Nitti, Patrizia; Pitacco, Giuliana; Valentin, Ennio
CORPORATE SOURCE: Dipartimento di Scienze Chimiche, Universita, Trieste, 34127, Italy
SOURCE: Journal of Organic Chemistry (1998), 63(7), 2385-2388
CODEN: JOCEAH; ISSN: 0022-3263
PUBLISHER: American Chemical Society
DOCUMENT TYPE: Journal
LANGUAGE: English
OTHER SOURCE(S): CASREACT 128:204723
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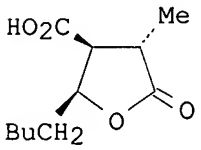

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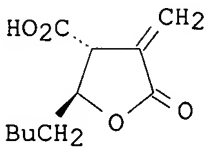

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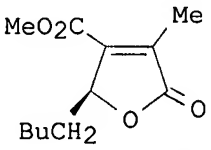


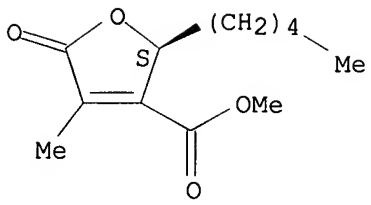
III

AB Synthesis of both enantiomers of phaseolinic acid and on the determination of their absolute configurations via chemical and spectroscopic correlations is reported. The strategy was to correlate (-)-phaseolinic acid (I) with (-)-methylenolactocin (II) through the butenolide III.

IT 203514-27-6P
RL: BPN (Biosynthetic preparation); SPN (Synthetic preparation); BIOL (Biological study); PREP (Preparation)
(absolute configuration of phaseolinic acid enantiomers via stereoselective synthesis)

RN 203514-27-6 CAPLUS
CN 3-Furancarboxylic acid, 2,5-dihydro-4-methyl-5-oxo-2-pentyl-, methyl ester, (S)- (9CI) (CA INDEX NAME)

Absolute stereochemistry. Rotation (-).



REFERENCE COUNT: 25 THERE ARE 25 CITED REFERENCES AVAILABLE FOR THIS RECORD. ALL CITATIONS AVAILABLE IN THE RE FORMAT

L5 ANSWER 10 OF 41 CAPLUS COPYRIGHT 2007 ACS on STN
ACCESSION NUMBER: 1998:113167 CAPLUS
DOCUMENT NUMBER: 128:204725
TITLE: Tandem Michael-aldol induced ring closure of dimethyl 2-phenylselenofumarate: a diastereoselective entry to novel 4-phenylselenobutano-4-lactone derivatives, versatile precursors of naturally occurring compounds
AUTHOR(S): D'Onofrio, Franco; Margarita, Roberto; Parlanti, Luca; Piancatelli, Giovanni; Sbraga, Maurizio
CORPORATE SOURCE: Dip. Chim., Univ. "La Sapienza", Rome, 00185, Italy
SOURCE: Chemical Communications (Cambridge) (1998), (2), 185-186
CODEN: CHCOFS; ISSN: 1359-7345
PUBLISHER: Royal Society of Chemistry
DOCUMENT TYPE: Journal
LANGUAGE: English
OTHER SOURCE(S): CASREACT 128:204725
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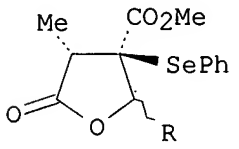
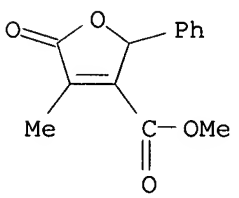


I

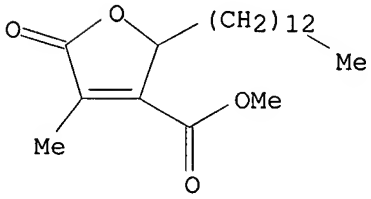
AB Tandem Michael-aldol induced ring closure of di-Me 2-phenylselenofumarate with aldehydes gave, with good yields and diastereoselectivities, highly substituted isomeric 4-phenylselenobutano-4-lactones I (R = n-C13H27, Ph, 2-furyl, CH:CHMe) which were de-selenated to form butanolide naturally occurring substances.

IT 28970-27-6P 67910-85-4P 203853-46-7P
203853-47-8P
RL: SPN (Synthetic preparation); PREP (Preparation)
(diastereoselective preparation of novel 4-phenylselenobutano-4-lactone precursors of naturally occurring compds. via tandem Michael-aldol induced ring closure of di-Me 2-phenylselenofumarate)

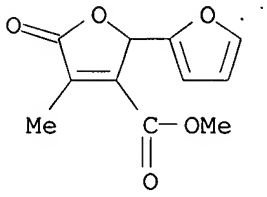
RN 28970-27-6 CAPLUS
CN 3-Furancarboxylic acid, 2,5-dihydro-4-methyl-5-oxo-2-phenyl-, methyl ester (9CI) (CA INDEX NAME)



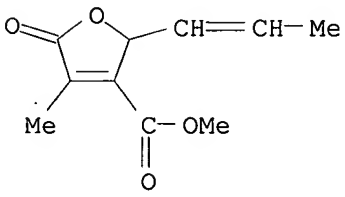
RN 67910-85-4 CAPLUS
CN 3-Furancarboxylic acid, 2,5-dihydro-4-methyl-5-oxo-2-tridecyl-, methyl ester (9CI) (CA INDEX NAME)



RN 203853-46-7 CAPLUS
CN [2,2'-Bifuran]-3-carboxylic acid, 2,5-dihydro-4-methyl-5-oxo-, methyl ester (9CI) (CA INDEX NAME)



RN 203853-47-8 CAPLUS
CN 3-Furancarboxylic acid, 2,5-dihydro-4-methyl-5-oxo-2-(1-propenyl)-, methyl ester (9CI) (CA INDEX NAME)



REFERENCE COUNT: 32 THERE ARE 32 CITED REFERENCES AVAILABLE FOR THIS RECORD. ALL CITATIONS AVAILABLE IN THE RE FORMAT

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COST IN U.S. DOLLARS	SINCE FILE ENTRY	TOTAL SESSION
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     FILE 'REGISTRY' ENTERED AT 09:07:57 ON 21 MAY 2007
L1              STRUCTURE UPLOADED
L2              STRUCTURE UPLOADED
L3            1 S L2
L4           53 S L2 FULL

     FILE 'CAPLUS' ENTERED AT 09:09:44 ON 21 MAY 2007
L5           41 S L4 FULL

     FILE 'STNGUIDE' ENTERED AT 09:10:48 ON 21 MAY 2007

=> log y
COST IN U.S. DOLLARS                                SINCE FILE      TOTAL
                                                      ENTRY    SESSION
FULL ESTIMATED COST                                    0.18     227.03

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                                                      ENTRY    SESSION
CA SUBSCRIBER PRICE                                    0.00      -7.80

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NEWS 3	JAN 16	CA/CAplus Company Name Thesaurus enhanced and reloaded
NEWS 4	JAN 16	IPC version 2007.01 thesaurus available on STN
NEWS 5	JAN 16	WPIDS/WPINDEX/WPIX enhanced with IPC 8 reclassification data
NEWS 6	JAN 22	CA/CAplus updated with revised CAS roles
NEWS 7	JAN 22	CA/CAplus enhanced with patent applications from India
NEWS 8	JAN 29	PHAR reloaded with new search and display fields
NEWS 9	JAN 29	CAS Registry Number crossover limit increased to 300,000 in multiple databases
NEWS 10	FEB 15	PATDPASPC enhanced with Drug Approval numbers
NEWS 11	FEB 15	RUSSIAPAT enhanced with pre-1994 records
NEWS 12	FEB 23	KOREAPAT enhanced with IPC 8 features and functionality
NEWS 13	FEB 26	MEDLINE reloaded with enhancements
NEWS 14	FEB 26	EMBASE enhanced with Clinical Trial Number field
NEWS 15	FEB 26	TOXCENTER enhanced with reloaded MEDLINE
NEWS 16	FEB 26	IFICDB/IFIPAT/IFIUDB reloaded with enhancements
NEWS 17	FEB 26	CAS Registry Number crossover limit increased from 10,000 to 300,000 in multiple databases
NEWS 18	MAR 15	WPIDS/WPIX enhanced with new FRAGHITSTR display format
NEWS 19	MAR 16	CASREACT coverage extended
NEWS 20	MAR 20	MARPAT now updated daily
NEWS 21	MAR 22	LWPI reloaded
NEWS 22	MAR 30	RDISCLOSURE reloaded with enhancements
NEWS 23	APR 02	JICST-EPLUS removed from database clusters and STN
NEWS 24	APR 30	GENBANK reloaded and enhanced with Genome Project ID field
NEWS 25	APR 30	CHEMCATS enhanced with 1.2 million new records
NEWS 26	APR 30	CA/CAplus enhanced with 1870-1889 U.S. patent records
NEWS 27	APR 30	INPADOC replaced by INPADOCDB on STN
NEWS 28	MAY 01	New CAS web site launched
NEWS 29	MAY 08	CA/CAplus Indian patent publication number format defined
NEWS 30	MAY 14	RDISCLOSURE on STN Easy enhanced with new search and display fields
NEWS EXPRESS		NOVEMBER 10 CURRENT WINDOWS VERSION IS V8.01c, CURRENT MACINTOSH VERSION IS V6.0c(ENG) AND V6.0Jc(JP), AND CURRENT DISCOVER FILE IS DATED 25 SEPTEMBER 2006.
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FULL ESTIMATED COST	0.21	0.21

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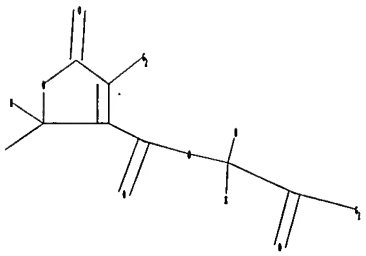

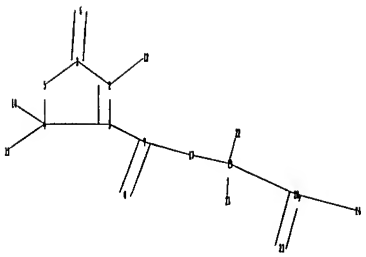

chain nodes :
6 7 8 12 14 17 19 20 21 22 23 24
ring nodes :
1 2 3 4 5
ring/chain nodes :
11
chain bonds :
1-6 2-12 3-7 4-11 4-14 7-8 7-17 17-19 19-20 19-22 19-23 20-21 20-24
ring bonds :
1-2 1-5 2-3 3-4 4-5
exact/norm bonds :
1-6 2-12 7-8 7-17 17-19 20-21 20-24
exact bonds :
1-2 1-5 2-3 3-4 3-7 4-5 4-11 4-14 19-20 19-22 19-23
isolated ring systems :
containing 1 :

G1:O,N

G2:C,H,Cy

G3:C,H,O,OH,X,Cb

G4:C,H,O,OH,X,Cb

G5:C,O,OH,X,Cy

Match level :
1:Atom 2:Atom 3:Atom 4:Atom 5:Atom 6:CLASS 7:CLASS 8:CLASS 11:CLASS
12:CLASS 14:CLASS 17:CLASS 19:CLASS 20:CLASS 21:CLASS 22:CLASS 23:CLASS
24:CLASS

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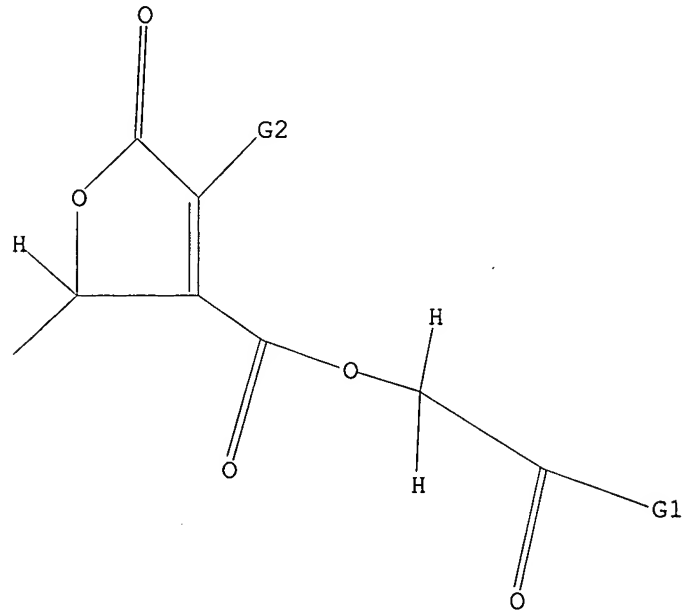

G1 O,N

G2 C,H,Cy

G3 C,H,O,OH,X,Cb

G4 C,H,O,OH,X,Cb

G5 C,O,OH,X,Cy

Structure attributes must be viewed using STN Express query preparation.

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SAMPLE SCREEN SEARCH COMPLETED - 21 TO ITERATE

100.0% PROCESSED 21 ITERATIONS 0 ANSWERS
SEARCH TIME: 00.00.01

FULL FILE PROJECTIONS: ONLINE **COMPLETE**
BATCH **COMPLETE**

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PROJECTED ITERATIONS:          146 TO      694
PROJECTED ANSWERS:               0 TO        0

L2            0 SEA SSS SAM L1

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100.0% PROCESSED      234 ITERATIONS                                0 ANSWERS
SEARCH TIME: 00.00.01

L3            0 SEA SSS FUL L1

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                                                         ENTRY    SESSION
FULL ESTIMATED COST                                     172.55     172.76

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ds 5,6

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NEWS 4	JAN 16	IPC version 2007.01 thesaurus available on STN
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NEWS 16	FEB 26	IFICDB/IFIPAT/IFIUDB reloaded with enhancements
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NEWS 18	MAR 15	WPIDS/WPIX enhanced with new FRAGHITSTR display format
NEWS 19	MAR 16	CASREACT coverage extended
NEWS 20	MAR 20	MARPAT now updated daily
NEWS 21	MAR 22	LWPI reloaded
NEWS 22	MAR 30	RDISCLOSURE reloaded with enhancements
NEWS 23	APR 02	JICST-EPLUS removed from database clusters and STN
NEWS 24	APR 30	GENBANK reloaded and enhanced with Genome Project ID field
NEWS 25	APR 30	CHEMCATS enhanced with 1.2 million new records
NEWS 26	APR 30	CA/CAplus enhanced with 1870-1889 U.S. patent records
NEWS 27	APR 30	INPADOC replaced by INPADOCDB on STN
NEWS 28	MAY 01	New CAS web site launched
NEWS 29	MAY 08	CA/CAplus Indian patent publication number format defined
NEWS 30	MAY 14	RDISCLOSURE on STN Easy enhanced with new search and display fields
NEWS EXPRESS		NOVEMBER 10 CURRENT WINDOWS VERSION IS V8.01c, CURRENT MACINTOSH VERSION IS V6.0c(ENG) AND V6.0Jc(JP), AND CURRENT DISCOVER FILE IS DATED 25 SEPTEMBER 2006.
NEWS HOURS		STN Operating Hours Plus Help Desk Availability
NEWS LOGIN		Welcome Banner and News Items
NEWS IPC8		For general information regarding STN implementation of IPC 8

Enter NEWS followed by the item number or name to see news on that specific topic.

```
* * * * * * * * * * * * * * * * STN  Columbus  * * * * * * * * * * * * * * * *

FILE 'HOME' ENTERED AT 07:52:57 ON 21 MAY 2007

=>
Uploading
THIS COMMAND NOT AVAILABLE IN THE CURRENT FILE
Do you want to switch to the Registry File?
Choice (Y/n):
Switching to the Registry File...
Some commands only work in certain files.  For example, the EXPAND
command can only be used to look at the index in a file which has an
index.  Enter "HELP COMMANDS" at an arrow prompt (=>) for a list of
commands which can be used in this file.

=> FILE REGISTRY

COST IN U.S. DOLLARS                                SINCE FILE      TOTAL
                                                         ENTRY    SESSION
FULL ESTIMATED COST                                       0.63       0.63

FILE 'REGISTRY' ENTERED AT 07:54:49 ON 21 MAY 2007
USE IS SUBJECT TO THE TERMS OF YOUR STN CUSTOMER AGREEMENT.
PLEASE SEE "HELP USAGETERMS" FOR DETAILS.
COPYRIGHT (C) 2007 American Chemical Society (ACS)

Property values tagged with IC are from the ZIC/VINITI data file
provided by InfoChem.

STRUCTURE FILE UPDATES:   18 MAY 2007  HIGHEST RN 935394-90-4
DICTIONARY FILE UPDATES:  18 MAY 2007  HIGHEST RN 935394-90-4

New CAS Information Use Policies, enter HELP USAGETERMS for details.

TSCA INFORMATION NOW CURRENT THROUGH December 2, 2006

  Please note that search-term pricing does apply when
  conducting SmartSELECT searches.

REGISTRY includes numerically searchable data for experimental and
predicted properties as well as tags indicating availability of
experimental property data in the original document.  For information
on property searching in REGISTRY, refer to:

http://www.cas.org/support/stngen/stndoc/properties.html

=>
Uploading C:\Program Files\Stnexp\Queries\10519804c.str
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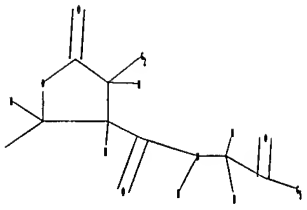
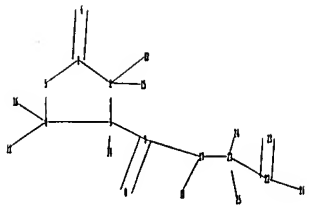




chain nodes :
6 7 8 12 14 15 16 17 18 21 22 23 24 25 26
ring nodes :
1 2 3 4 5
ring/chain nodes :
11
chain bonds :
1-6 2-12 2-15 3-7 3-14 4-11 4-16 7-8 7-17 17-18 17-21 21-22 21-24
21-25 22-23 22-26
ring bonds :
1-2 1-5 2-3 3-4 4-5
exact/norm bonds :
1-6 2-12 7-8 7-17 17-21 22-23 22-26
exact bonds :
1-2 1-5 2-3 2-15 3-4 3-7 3-14 4-5 4-11 4-16 17-18 21-22 21-24 21-25
isolated ring systems :
containing 1 :

G1:O,N

G2:C,H,Cy

G3:C,H,O,OH,X,Cb

G4:CH3,CH2

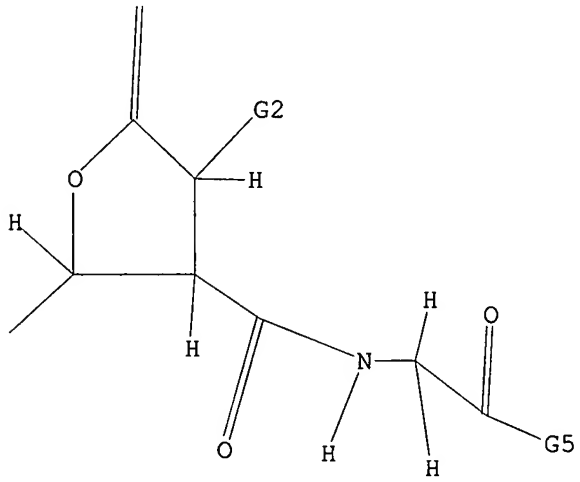
G5:O,N

Match level :
1:Atom 2:Atom 3:Atom 4:Atom 5:Atom 6:CLASS 7:CLASS 8:CLASS 11:CLASS
12:CLASS 14:CLASS 15:CLASS 16:CLASS 17:CLASS 18:CLASS 21:CLASS 22:CLASS
23:CLASS 24:CLASS 25:CLASS 26:CLASS

L1 STRUCTURE UPLOADED

=> dl1
DL1 IS NOT A RECOGNIZED COMMAND
The previous command name entered was not recognized by the system.
For a list of commands available to you in the current file, enter
"HELP COMMANDS" at an arrow prompt (=>).

=> d l1
L1 HAS NO ANSWERS
L1 STR



G1 O,N

G2 C,H,Cy

G3 C,H,O,OH,X,Cb

G4 Me,CH2

G5 O,N

Structure attributes must be viewed using STN Express query preparation.

=> s l1
SAMPLE SEARCH INITIATED 07:55:11 FILE 'REGISTRY'
SAMPLE SCREEN SEARCH COMPLETED - 11 TO ITERATE

100.0% PROCESSED 11 ITERATIONS 0 ANSWERS
SEARCH TIME: 00.00.01

FULL FILE PROJECTIONS: ONLINE **COMPLETE**

```
                        BATCH   **COMPLETE**
PROJECTED ITERATIONS:           22 TO      418
PROJECTED ANSWERS:               0 TO        0

L2            0 SEA SSS SAM L1

=> s l1 full
FULL SEARCH INITIATED 07:55:16 FILE 'REGISTRY'
FULL SCREEN SEARCH COMPLETED -      297 TO ITERATE

100.0% PROCESSED      297 ITERATIONS                                0 ANSWERS
SEARCH TIME: 00.00.01

L3            0 SEA SSS FUL L1

=> log y
COST IN U.S. DOLLARS                                SINCE FILE      TOTAL
                                                       ENTRY    SESSION
FULL ESTIMATED COST                                   172.55     173.18

STN INTERNATIONAL LOGOFF AT 07:55:46 ON 21 MAY 2007
```

d: 345

Connecting via Winsock to STN

Welcome to STN International! Enter x:x

LOGINID:SSPTANXR1625

PASSWORD:
TERMINAL (ENTER 1, 2, 3, OR ?):2

* * * * * * * * * * Welcome to STN International * * * * * * * * * *

NEWS 1		Web Page for STN Seminar Schedule - N. America
NEWS 2	JAN 08	CHEMLIST enhanced with New Zealand Inventory of Chemicals
NEWS 3	JAN 16	CA/CAplus Company Name Thesaurus enhanced and reloaded
NEWS 4	JAN 16	IPC version 2007.01 thesaurus available on STN
NEWS 5	JAN 16	WPIDS/WPINDEX/WPIX enhanced with IPC 8 reclassification data
NEWS 6	JAN 22	CA/CAplus updated with revised CAS roles
NEWS 7	JAN 22	CA/CAplus enhanced with patent applications from India
NEWS 8	JAN 29	PHAR reloaded with new search and display fields
NEWS 9	JAN 29	CAS Registry Number crossover limit increased to 300,000 in multiple databases
NEWS 10	FEB 15	PATDPASPC enhanced with Drug Approval numbers
NEWS 11	FEB 15	RUSSIAPAT enhanced with pre-1994 records
NEWS 12	FEB 23	KOREAPAT enhanced with IPC 8 features and functionality
NEWS 13	FEB 26	MEDLINE reloaded with enhancements
NEWS 14	FEB 26	EMBASE enhanced with Clinical Trial Number field
NEWS 15	FEB 26	TOXCENTER enhanced with reloaded MEDLINE
NEWS 16	FEB 26	IFICDB/IFIPAT/IFIUDB reloaded with enhancements
NEWS 17	FEB 26	CAS Registry Number crossover limit increased from 10,000 to 300,000 in multiple databases
NEWS 18	MAR 15	WPIDS/WPIX enhanced with new FRAGHITSTR display format
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NEWS 20	MAR 20	MARPAT now updated daily
NEWS 21	MAR 22	LWPI reloaded
NEWS 22	MAR 30	RDISCLOSURE reloaded with enhancements
NEWS 23	APR 02	JICST-EPLUS removed from database clusters and STN
NEWS 24	APR 30	GENBANK reloaded and enhanced with Genome Project ID field
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NEWS 26	APR 30	CA/CAplus enhanced with 1870-1889 U.S. patent records
NEWS 27	APR 30	INPADOC replaced by INPADOCDB on STN
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NEWS HOURS		STN Operating Hours Plus Help Desk Availability
NEWS LOGIN		Welcome Banner and News Items
NEWS IPC8		For general information regarding STN implementation of IPC 8

Enter NEWS followed by the item number or name to see news on that specific topic.

* * * * * * * * * * * * * * * * STN Columbus * * * * * * * * * * * * * * * *

FILE 'HOME' ENTERED AT 07:43:43 ON 21 MAY 2007

=> file reg

COST IN U.S. DOLLARS	SINCE FILE ENTRY	TOTAL SESSION
FULL ESTIMATED COST	0.21	0.21

FILE 'REGISTRY' ENTERED AT 07:43:52 ON 21 MAY 2007
USE IS SUBJECT TO THE TERMS OF YOUR STN CUSTOMER AGREEMENT.
PLEASE SEE "HELP USAGETERMS" FOR DETAILS.

Property values tagged with IC are from the ZIC/VINITI data file provided by InfoChem.

STRUCTURE FILE UPDATES: 18 MAY 2007 HIGHEST RN 935394-90-4
DICTIONARY FILE UPDATES: 18 MAY 2007 HIGHEST RN 935394-90-4

New CAS Information Use Policies, enter HELP USAGETERMS for details.

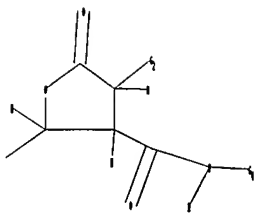
TSCA INFORMATION NOW CURRENT THROUGH December 2, 2006

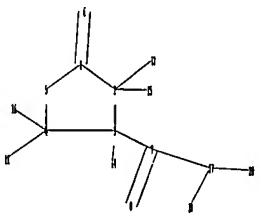
Please note that search-term pricing does apply when conducting SmartSELECT searches.

REGISTRY includes numerically searchable data for experimental and predicted properties as well as tags indicating availability of experimental property data in the original document. For information on property searching in REGISTRY, refer to:

http://www.cas.org/support/stngen/stndoc/properties.html

=>
Uploading C:\Program Files\Stnexp\Queries\10519804b.str





chain nodes :
6 7 8 12 14 15 16 17 18 20
ring nodes :
1 2 3 4 5
ring/chain nodes :
11
chain bonds :
1-6 2-12 2-15 3-7 3-14 4-11 4-16 7-8 7-17 17-18 17-20
ring bonds :
1-2 1-5 2-3 3-4 4-5
exact/norm bonds :
1-6 2-12 7-8 7-17 17-20
exact bonds :
1-2 1-5 2-3 2-15 3-4 3-7 3-14 4-5 4-11 4-16 17-18
isolated ring systems :
containing 1 :

G1:O,N

G2:C,H,Cy

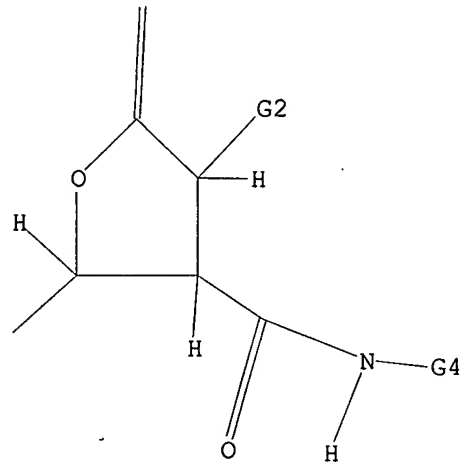
G3:C,H,O,OH,X,Cb

G4:CH3,CH2

Match level :
1:Atom 2:Atom 3:Atom 4:Atom 5:Atom 6:CLASS 7:CLASS 8:CLASS 11:CLASS
12:CLASS 14:CLASS 15:CLASS 16:CLASS 17:CLASS 18:CLASS 20:CLASS

L1 STRUCTURE UPLOADED

=> d l1
L1 HAS NO ANSWERS
L1 STR



G1 O,N

G2 C,H,Cy

G3 C,H,O,OH,X,Cb

G4 Me,CH2

Structure attributes must be viewed using STN Express query preparation.

=> s l1
SAMPLE SEARCH INITIATED 07:46:36 FILE 'REGISTRY'
SAMPLE SCREEN SEARCH COMPLETED - 92 TO ITERATE

100.0% PROCESSED 92 ITERATIONS 3 ANSWERS
SEARCH TIME: 00.00.01

FULL FILE PROJECTIONS: ONLINE **COMPLETE**
BATCH **COMPLETE**
PROJECTED ITERATIONS: 1265 TO 2415
PROJECTED ANSWERS: 3 TO 163

L2 3 SEA SSS SAM L1

=> s l1 full
FULL SEARCH INITIATED 07:46:40 FILE 'REGISTRY'
FULL SCREEN SEARCH COMPLETED - 2255 TO ITERATE

100.0% PROCESSED 2255 ITERATIONS 17 ANSWERS.
SEARCH TIME: 00.00.01

L3 17 SEA SSS FUL L1

=> file caplus
COST IN U.S. DOLLARS SINCE FILE ENTRY TOTAL SESSION
FULL ESTIMATED COST 173.90 174.11

FILE 'CAPLUS' ENTERED AT 07:46:46 ON 21 MAY 2007
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PLEASE SEE "HELP USAGETERMS" FOR DETAILS.

FILE COVERS 1907 - 21 May 2007 VOL 146 ISS 22
FILE LAST UPDATED: 20 May 2007 (20070520/ED)

Effective October 17, 2005, revised CAS Information Use Policies apply.
They are available for your review at:

http://www.cas.org/infopolicy.html

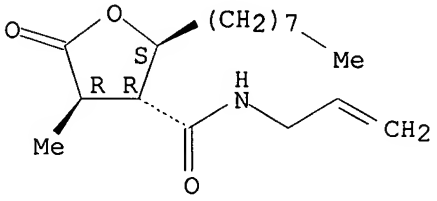
=> s l3 full
L4 2 L3

=> d ibib abs hitstr tot

L4 ANSWER 1 OF 2 CAPLUS COPYRIGHT 2007 ACS on STN
ACCESSION NUMBER: 2005:708473 CAPLUS
DOCUMENT NUMBER: 143:326143
TITLE: New α-methylene-γ-butyrolactones with antimycobacterial properties
AUTHOR(S): Hughes, Minerva A.; McFadden, Jill M.; Townsend, Craig A.
CORPORATE SOURCE: Department of Chemistry, The Johns Hopkins University, Baltimore, MD, 21218, USA
SOURCE: Bioorganic & Medicinal Chemistry Letters (2005), 15(17), 3857-3859
CODEN: BMCLE8; ISSN: 0960-894X
PUBLISHER: Elsevier B.V.
DOCUMENT TYPE: Journal
LANGUAGE: English
OTHER SOURCE(S): CASREACT 143:326143
AB The synthesis and antimycobacterial activity of a series of α-methylene-γ-butyrolactones based on the natural product protolichesterinic acid are described. The products bearing an allylamide group at the C-4 position showed improved activity with MICs in the range of 6.25-12.5 μg/mL.
IT 647830-54-4P 647830-55-5P
RL: PAC (Pharmacological activity); SPN (Synthetic preparation); BIOL (Biological study); PREP (Preparation)
(preparation of α-methylene-γ-butyrolactone derivs. and study of their antimycobacterial activity)

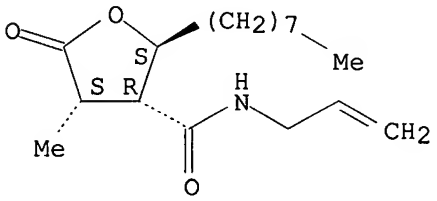
RN 647830-54-4 CAPLUS
CN 3-Furancarboxamide, tetrahydro-4-methyl-2-octyl-5-oxo-N-2-propenyl-, (2R,3S,4S)-rel- (9CI) (CA INDEX NAME)

Relative stereochemistry.



RN 647830-55-5 CAPLUS
CN 3-Furancarboxamide, tetrahydro-4-methyl-2-octyl-5-oxo-N-2-propenyl-, (2R,3S,4R)-rel- (9CI) (CA INDEX NAME)

Relative stereochemistry.



REFERENCE COUNT: 20 THERE ARE 20 CITED REFERENCES AVAILABLE FOR THIS RECORD. ALL CITATIONS AVAILABLE IN THE RE FORMAT

L4 ANSWER 2 OF 2 CAPLUS COPYRIGHT 2007 ACS on STN
ACCESSION NUMBER: 2004:60242 CAPLUS
DOCUMENT NUMBER: 140:111267
TITLE: Preparation of γ-butyrolactone-4-carboxylate derivatives as inhibitors of fatty acid synthase
INVENTOR(S): Kuhadja, Francis P.; Medghalchi, Susan M.; Thupari, Jagan N.; Townsend, Craig A.; McFadden, Jill M.
PATENT ASSIGNEE(S): Fasgen, Llc., USA; The Johns Hopkins University
SOURCE: PCT Int. Appl., 57 pp.
CODEN: PIXXD2
DOCUMENT TYPE: Patent
LANGUAGE: English
FAMILY ACC. NUM. COUNT: 1
PATENT INFORMATION:

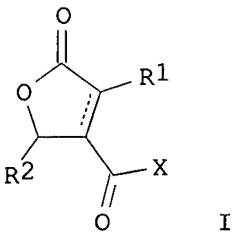
PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
WO 2004006835	A2	20040122	WO 2003-US20960	20030701
WO 2004006835	A3	20040722		
W: AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BY, BZ, CA, CH, CN, CO, CR, CU, CZ, DE, DK, DM, DZ, EC, EE, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, MZ, NO, NZ, OM, PH, PL, PT, RO, RU, SC, SD, SE, SG, SK, SL, TJ, TM, TN, TR, TT, TZ, UA, UG, US, UZ, VC, VN, YU, ZA, ZM, ZW				
RW: GH, GM, KE, LS, MW, MZ, SD, SL, SZ, TZ, UG, ZM, ZW, AM, AZ, BY, KG, KZ, MD, RU, TJ, TM, AT, BE, BG, CH, CY, CZ, DE, DK, EE, ES, FI, FR, GB, GR, HU, IE, IT, LU, MC, NL, PT, RO, SE, SI, SK, TR, BF, BJ, CF, CG, CI, CM, GA, GN, GQ, GW, ML, MR, NE, SN, TD, TG				
CA 2491183	A1	20040122	CA 2003-2491183	20030701
AU 2003248810	A1	20040202	AU 2003-248810	20030701
EP 1534263	A2	20050601	EP 2003-764343	20030701

R: AT, BE, CH, DE, DK, ES, FR, GB, GR, IT, LI, LU, NL, SE, MC, PT, IE, SI, LT, LV, FI, RO, MK, CY, AL, TR, BG, CZ, EE, HU, SK

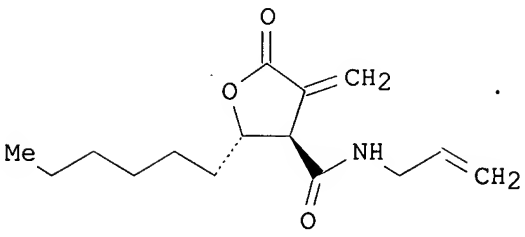
JP 2005533107	T	20051104	JP 2004-521521		20030701
CN 1705478	A	20051207	CN 2003-818369		20030701
IN 2004KN02001	A	20070309	IN 2004-KN2001		20041229
US 2006241177	A1	20061026	US 2006-519804		20060519
PRIORITY APPLN. INFO.:			US 2002-392809P	P	20020701
			WO 2003-US20960	W	20030701

OTHER SOURCE(S): MARPAT 140:111267

GI



I



II

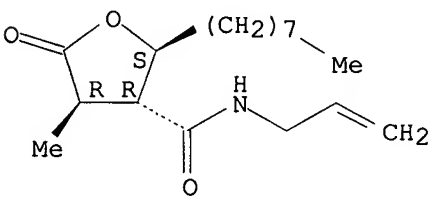
AB The title compds. I [R1 = H, (cyclo)alkyl, alkenyl, (alkyl)aryl, etc.; R2 = (cyclo)alkyl, alkenyl, (alkyl)aryl, etc.; X = OR3 or NHR3, where R3 = H, (cyclo)alkyl, alkenyl, (alkyl)aryl, etc.] were prepared as inhibitors of fatty acid synthase and neuropeptide-Y for weight loss, anti-microbial and anti-cancer applications. Thus, reaction of (±)-α-methylene-γ-butyrolactone-5-hexyl-4-carboxylic acid with allylamine yielded compound II. The latter inhibits human fatty acid synthase with IC50 = 81 μg/mL.

IT 647830-54-4P 647830-55-5P 647830-63-5P
647830-64-6P
RL: PAC (Pharmacological activity); SPN (Synthetic preparation); THU (Therapeutic use); BIOL (Biological study); PREP (Preparation); USES (Uses)
(preparation of γ-butyrolactone carboxylate derivs. as inhibitors of fatty acid synthase)

RN 647830-54-4 CAPLUS

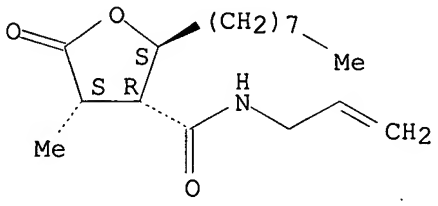
CN 3-Furancarboxamide, tetrahydro-4-methyl-2-octyl-5-oxo-N-2-propenyl-, (2R,3S,4S)-rel- (9CI) (CA INDEX NAME)

Relative stereochemistry.



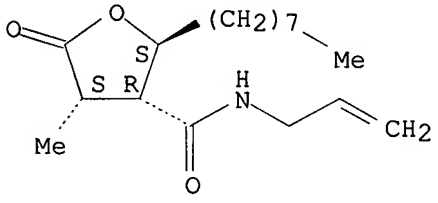
RN 647830-55-5 CAPLUS
CN 3-Furancarboxamide, tetrahydro-4-methyl-2-octyl-5-oxo-N-2-propenyl-, (2R,3S,4R)-rel- (9CI) (CA INDEX NAME)

Relative stereochemistry.



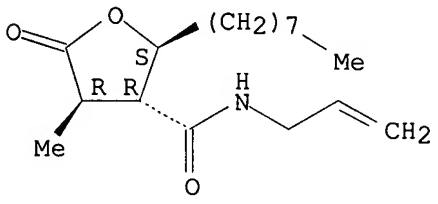
RN 647830-63-5 CAPLUS
CN 3-Furancarboxamide, tetrahydro-4-methyl-2-octyl-5-oxo-N-2-propenyl-, (2S,3R,4S)- (9CI) (CA INDEX NAME)

Absolute stereochemistry.



RN 647830-64-6 CAPLUS
CN 3-Furancarboxamide, tetrahydro-4-methyl-2-octyl-5-oxo-N-2-propenyl-, (2S,3R,4R)- (9CI) (CA INDEX NAME)

Absolute stereochemistry.



=> d his

(FILE 'HOME' ENTERED AT 07:43:43 ON 21 MAY 2007)

FILE 'REGISTRY' ENTERED AT 07:43:52 ON 21 MAY 2007
L1 STRUCTURE UPLOADED
L2 3 S L1
L3 17 S L1 FULL

FILE 'CAPLUS' ENTERED AT 07:46:46 ON 21 MAY 2007
L4 2 S L3 FULL

=> log y

COST IN U.S. DOLLARS	SINCE FILE ENTRY	TOTAL SESSION
FULL ESTIMATED COST	11.95	186.06

DISCOUNT AMOUNTS (FOR QUALIFYING ACCOUNTS)	SINCE FILE ENTRY	TOTAL SESSION
CA SUBSCRIBER PRICE	-1.56	-1.56

STN INTERNATIONAL LOGOFF AT 07:48:25 ON 21 MAY 2007

Connecting via Winsock to STN

Welcome to STN International! Enter x:x

LOGINID:SSPTANXR1625

PASSWORD:
TERMINAL (ENTER 1, 2, 3, OR ?):2

* * * * * * * * * * Welcome to STN International * * * * * * * * * *

NEWS 1		Web Page for STN Seminar Schedule - N. America
NEWS 2	JAN 08	CHEMLIST enhanced with New Zealand Inventory of Chemicals
NEWS 3	JAN 16	CA/CAplus Company Name Thesaurus enhanced and reloaded
NEWS 4	JAN 16	IPC version 2007.01 thesaurus available on STN
NEWS 5	JAN 16	WPIDS/WPINDEX/WPIX enhanced with IPC 8 reclassification data
NEWS 6	JAN 22	CA/CAplus updated with revised CAS roles
NEWS 7	JAN 22	CA/CAplus enhanced with patent applications from India
NEWS 8	JAN 29	PHAR reloaded with new search and display fields
NEWS 9	JAN 29	CAS Registry Number crossover limit increased to 300,000 in multiple databases
NEWS 10	FEB 15	PATDPASPC enhanced with Drug Approval numbers
NEWS 11	FEB 15	RUSSIAPAT enhanced with pre-1994 records
NEWS 12	FEB 23	KOREAPAT enhanced with IPC 8 features and functionality
NEWS 13	FEB 26	MEDLINE reloaded with enhancements
NEWS 14	FEB 26	EMBASE enhanced with Clinical Trial Number field
NEWS 15	FEB 26	TOXCENTER enhanced with reloaded MEDLINE
NEWS 16	FEB 26	IFICDB/IFIPAT/IFIUDB reloaded with enhancements
NEWS 17	FEB 26	CAS Registry Number crossover limit increased from 10,000 to 300,000 in multiple databases
NEWS 18	MAR 15	WPIDS/WPIX enhanced with new FRAGHITSTR display format
NEWS 19	MAR 16	CASREACT coverage extended
NEWS 20	MAR 20	MARPAT now updated daily
NEWS 21	MAR 22	LWPI reloaded
NEWS 22	MAR 30	RDISCLOSURE reloaded with enhancements
NEWS 23	APR 02	JICST-EPLUS removed from database clusters and STN
NEWS 24	APR 30	GENBANK reloaded and enhanced with Genome Project ID field
NEWS 25	APR 30	CHEMCATS enhanced with 1.2 million new records
NEWS 26	APR 30	CA/CAplus enhanced with 1870-1889 U.S. patent records
NEWS 27	APR 30	INPADOC replaced by INPADOCDB on STN
NEWS 28	MAY 01	New CAS web site launched
NEWS 29	MAY 08	CA/CAplus Indian patent publication number format defined
NEWS 30	MAY 14	RDISCLOSURE on STN Easy enhanced with new search and display fields
NEWS EXPRESS		NOVEMBER 10 CURRENT WINDOWS VERSION IS V8.01c, CURRENT MACINTOSH VERSION IS V6.0c(ENG) AND V6.0Jc(JP), AND CURRENT DISCOVER FILE IS DATED 25 SEPTEMBER 2006.
NEWS HOURS		STN Operating Hours Plus Help Desk Availability
NEWS LOGIN		Welcome Banner and News Items
NEWS IPC8		For general information regarding STN implementation of IPC 8

Enter NEWS followed by the item number or name to see news on that specific topic.

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FILE 'HOME' ENTERED AT 07:06:01 ON 21 MAY 2007

=> file reg

COST IN U.S. DOLLARS	SINCE FILE ENTRY	TOTAL SESSION
FULL ESTIMATED COST	0.21	0.21

FILE 'REGISTRY' ENTERED AT 07:06:10 ON 21 MAY 2007
USE IS SUBJECT TO THE TERMS OF YOUR STN CUSTOMER AGREEMENT.
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Property values tagged with IC are from the ZIC/VINITI data file provided by InfoChem.

STRUCTURE FILE UPDATES: 18 MAY 2007 HIGHEST RN 935394-90-4
DICTIONARY FILE UPDATES: 18 MAY 2007 HIGHEST RN 935394-90-4

New CAS Information Use Policies, enter HELP USAGETERMS for details.

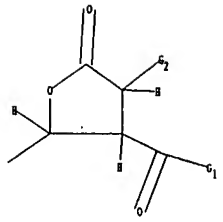
TSCA INFORMATION NOW CURRENT THROUGH December 2, 2006

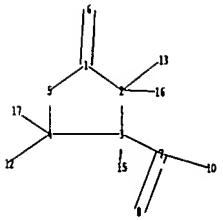
Please note that search-term pricing does apply when conducting SmartSELECT searches.

REGISTRY includes numerically searchable data for experimental and predicted properties as well as tags indicating availability of experimental property data in the original document. For information on property searching in REGISTRY, refer to:

http://www.cas.org/support/stngen/stndoc/properties.html

=>
Uploading C:\Program Files\Stnexp\Queries\10519804a.str





chain nodes :
6 7 8 10 13 15 16 17
ring nodes :
1 2 3 4 5
ring/chain nodes :
12
chain bonds :
1-6 2-13 2-16 3-7 3-15 4-12 4-17 7-8 7-10
ring bonds :
1-2 1-5 2-3 3-4 4-5
exact/norm bonds :
1-6 2-13 7-8 7-10
exact bonds :
1-2 1-5 2-3 2-16 3-4 3-7 3-15 4-5 4-12 4-17

isolated ring systems :
containing 1 :

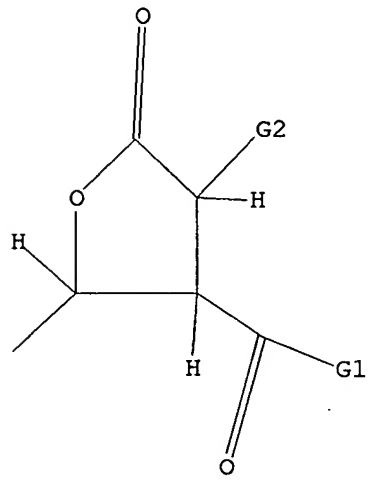
G1:O,N

G2:C,H,Cy

Match level :
1:Atom 2:Atom 3:Atom 4:Atom 5:Atom 6:CLASS 7:CLASS 8:CLASS 10:CLASS
12:CLASS 13:CLASS 15:CLASS 16:CLASS 17:CLASS

L1 STRUCTURE UPLOADED

=> d l1
L1 HAS NO ANSWERS
L1 STR



G1 O,N
G2 C,H,Cy

Structure attributes must be viewed using STN Express query preparation.

=> s l1
SAMPLE SEARCH INITIATED 07:06:41 FILE 'REGISTRY'
SAMPLE SCREEN SEARCH COMPLETED - 289 TO ITERATE

100.0% PROCESSED 289 ITERATIONS 43 ANSWERS
SEARCH TIME: 00.00.01

FULL FILE PROJECTIONS: ONLINE **COMPLETE**
BATCH **COMPLETE**
PROJECTED ITERATIONS: 4761 TO 6799
PROJECTED ANSWERS: 467 TO 1253

L2 43 SEA SSS SAM L1

=> s l1 full
FULL SEARCH INITIATED 07:06:45 FILE 'REGISTRY'
FULL SCREEN SEARCH COMPLETED - 5903 TO ITERATE

100.0% PROCESSED 5903 ITERATIONS 866 ANSWERS
SEARCH TIME: 00.00.01

L3 866 SEA SSS FUL L1

=> file caplus
COST IN U.S. DOLLARS SINCE FILE ENTRY TOTAL SESSION
FULL ESTIMATED COST 172.10 172.31

FILE 'CAPLUS' ENTERED AT 07:06:50 ON 21 MAY 2007
USE IS SUBJECT TO THE TERMS OF YOUR STN CUSTOMER AGREEMENT.
PLEASE SEE "HELP USAGETERMS" FOR DETAILS.

FILE COVERS 1907 - 21 May 2007 VOL 146 ISS 22
FILE LAST UPDATED: 20 May 2007 (20070520/ED)

Effective October 17, 2005, revised CAS Information Use Policies apply.
They are available for your review at:

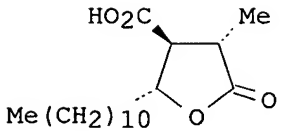
http://www.cas.org/infopolicy.html

=> s l3 full
L4 391 L3

=> s l4 and py<2002
21897270 PY<2002
L5 340 L4 AND PY<2002

=> d ibib abs hitstr 1-10

L5 ANSWER 1 OF 340 CAPLUS COPYRIGHT 2007 ACS on STN
ACCESSION NUMBER: 2002:34084 CAPLUS
DOCUMENT NUMBER: 136:294668
TITLE: Enantioselective syntheses of (+)- and (-)-nephrosteranic acid employing the Nicholas-Schreiber reaction
AUTHOR(S): Jacobi, Peter A.; Herradura, Prudencio
CORPORATE SOURCE: Dep. Chem., Dartmouth College, Hanover, NH, 03755, USA
SOURCE: Canadian Journal of Chemistry (2001), 79(11), 1727-1735
CODEN: CJCHAG; ISSN: 0008-4042
PUBLISHER: National Research Council of Canada
DOCUMENT TYPE: Journal
LANGUAGE: English
OTHER SOURCE(S): CASREACT 136:294668
GI



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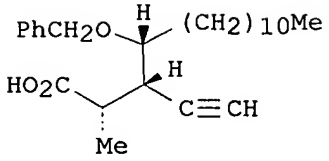


II

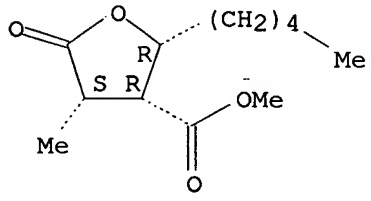
AB (+)- And (-)-Nephrosteranic acid (I) have been prepared in an enantioselective fashion from alkyne acid II (or ent-II) by a three step sequence involving debenzylation-lactonization, oxidative cleavage, and selective epimerization at C4. Acids II and ent-II were obtained as single enantiomers employing a Nicholas-Schreiber reaction.

IT 185246-79-1P 185246-81-5P 405552-35-4P,
(+)-4-epi-Nephrosteranic acid
RL: RCT (Reactant); SPN (Synthetic preparation); PREP (Preparation); RACT (Reactant or reagent)
(enantioselective syntheses of (+)- and (-)-nephrosteranic acid via the Nicholas-Schreiber reaction)

RN 185246-79-1 CAPLUS

CN 3-Furancarboxylic acid, tetrahydro-4-methyl-5-oxo-2-pentyl-, methyl ester, (2R,3R,4S)- (9CI) (CA INDEX NAME)

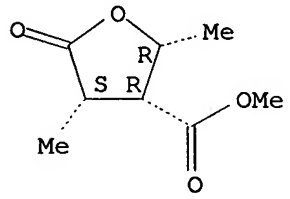
Absolute stereochemistry.



RN 185246-81-5 CAPLUS

CN 3-Furancarboxylic acid, tetrahydro-2,4-dimethyl-5-oxo-, methyl ester, (2R,3R,4S)- (9CI) (CA INDEX NAME)

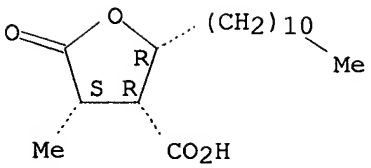
Absolute stereochemistry.



RN 405552-35-4 CAPLUS

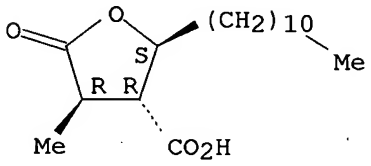
CN 3-Furancarboxylic acid, tetrahydro-4-methyl-5-oxo-2-undecyl-, (2R,3R,4S)- (9CI) (CA INDEX NAME)

Absolute stereochemistry. Rotation (+).



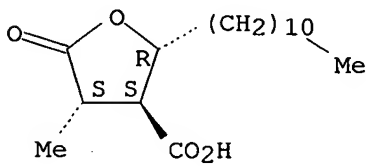
IT 480-71-7P, (-)-Nephrosteranic acid 70579-56-5P,
(+)-Nephrosteranic acid 185246-80-4P 185246-82-6P
407635-98-7P, (-)-4-epi-Nephrosteranic acid
RL: SPN (Synthetic preparation); PREP (Preparation)
(enantioselective syntheses of (+)- and (-)-nephrosteranic acid via the Nicholas-Schreiber reaction)
RN 480-71-7 CAPLUS
CN 3-Furancarboxylic acid, tetrahydro-4-methyl-5-oxo-2-undecyl-, (2S,3R,4R)- (9CI) (CA INDEX NAME)

Absolute stereochemistry. Rotation (-).



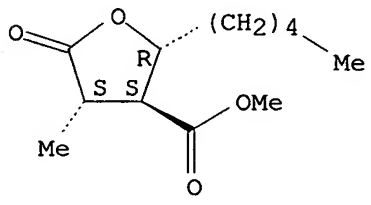
RN 70579-56-5 CAPLUS
CN 3-Furancarboxylic acid, tetrahydro-4-methyl-5-oxo-2-undecyl-, (2R,3S,4S)- (9CI) (CA INDEX NAME)

Absolute stereochemistry.



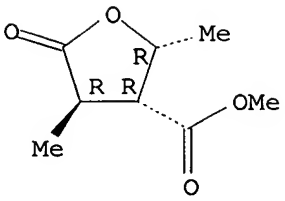
RN 185246-80-4 CAPLUS
CN 3-Furancarboxylic acid, tetrahydro-4-methyl-5-oxo-2-pentyl-, methyl ester, (2R,3S,4S)- (9CI) (CA INDEX NAME)

Absolute stereochemistry.



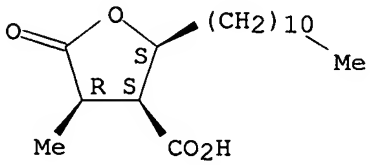
RN 185246-82-6 CAPLUS
CN 3-Furancarboxylic acid, tetrahydro-2,4-dimethyl-5-oxo-, methyl ester, (2R,3R,4R)- (9CI) (CA INDEX NAME)

Absolute stereochemistry.



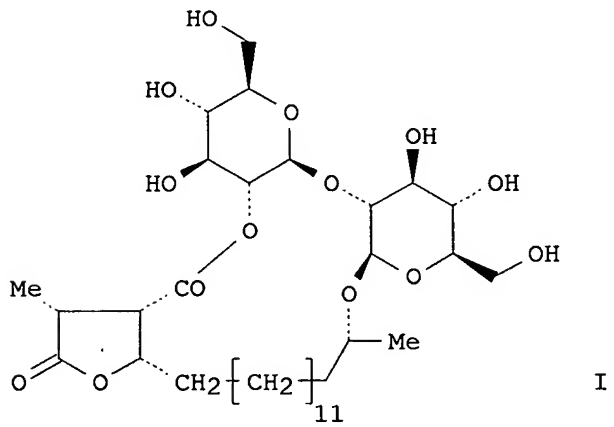
RN 407635-98-7 CAPLUS
CN 3-Furancarboxylic acid, tetrahydro-4-methyl-5-oxo-2-undecyl-, (2S,3S,4R)-(9CI) (CA INDEX NAME)

Absolute stereochemistry. Rotation (-).



REFERENCE COUNT: 25 THERE ARE 25 CITED REFERENCES AVAILABLE FOR THIS RECORD. ALL CITATIONS AVAILABLE IN THE RE FORMAT

L5 ANSWER 2 OF 340 CAPLUS COPYRIGHT 2007 ACS on STN
ACCESSION NUMBER: 2001:883604 CAPLUS
DOCUMENT NUMBER: 136:229116
TITLE: Macrolactone glycosides of three lichen acids from Acarospora gobiensis, a lichen of Central Asia
AUTHOR(S): Rezanka, Tomas; Guschina, Irina A.
CORPORATE SOURCE: Institute of Microbiology, Prague, 14220, Czech Rep.
SOURCE: Phytochemistry (2001), 58(8), 1281-1287
CODEN: PYTCAS; ISSN: 0031-9422
PUBLISHER: Elsevier Science Ltd.
DOCUMENT TYPE: Journal
LANGUAGE: English
GI



I

AB The compds. isolated from the extract of Central Asian lichen (Acarospora

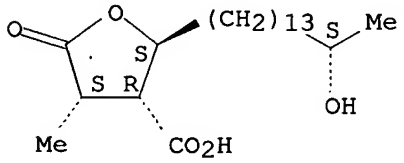
gobiensis H. Magn.) comprised three new glycosides having 18-hydroxy-dihydroalloprotolichesterinic, 18-hydroxy-neodihydroprotolichesterinic and 18-hydroxy-dihydroprotolichesterinic acids as aglycons and a di- or trisaccharide moiety linked at C-18 and at the carboxylic group. These compds., called gobienines A-C (e.g I, gobienine A), were found to be di- or trisaccharides forming a macrolactone with the aglycon. The structures were elucidated by using extensive spectroscopic anal. (1D and 2D NMR, MS, IR and ORD) and chemical and enzymic methods.

IT 379224-47-2P
RL: PRP (Properties); SPN (Synthetic preparation); PREP (Preparation)
(18S-hydroxydihydroprotolichesterinic acid; gobienine B hydrolysis product)

RN 379224-47-2 CAPLUS

CN 3-Furancarboxylic acid, tetrahydro-2-[(14S)-14-hydroxypentadecyl]-4-methyl-5-oxo-, (2S,3R,4S)- (9CI) (CA INDEX NAME)

Absolute stereochemistry. Rotation (+).

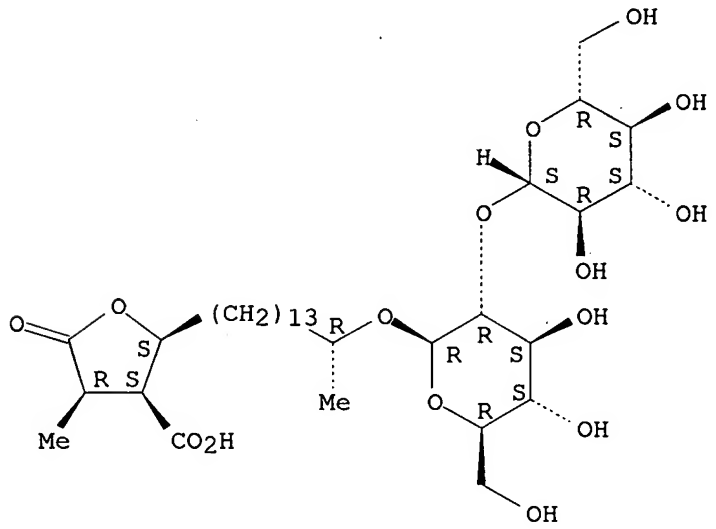


IT 403618-80-4P
RL: PRP (Properties); SPN (Synthetic preparation); PREP (Preparation)
(gobienine A esterase treatment product)

RN 403618-80-4 CAPLUS

CN 3-Furancarboxylic acid, 2-[(14R)-14-[(2-O-β-D-glucopyranosyl-β-D-glucopyranosyl)oxy]pentadecyl]tetrahydro-4-methyl-5-oxo-, (2S,3S,4R)- (9CI) (CA INDEX NAME)

Absolute stereochemistry. Rotation (-).

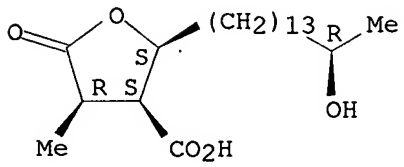


IT 379224-46-1P, 18R-Hydroxydihydroalloprotolichesterinic acid
RL: PRP (Properties); SPN (Synthetic preparation); PREP (Preparation)
(gobienine A hydrolysis product)

RN 379224-46-1 CAPLUS

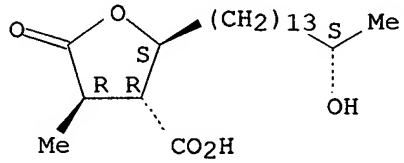
CN 3-Furancarboxylic acid, tetrahydro-2-[(14R)-14-hydroxypentadecyl]-4-methyl-5-oxo-, (2S,3S,4R)- (9CI) (CA INDEX NAME)

Absolute stereochemistry. Rotation (-).



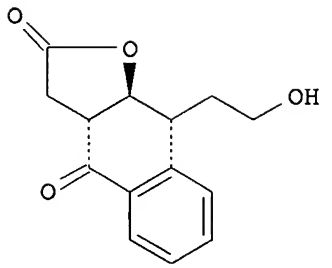
IT 379224-48-3P, 18S-Hydroxyneodihydroprotolichesterinic acid
RL: PRP (Properties); SPN (Synthetic preparation); PREP (Preparation)
(gobienine B hydrolysis product)
RN 379224-48-3 CAPLUS
CN 3-Furancarboxylic acid, tetrahydro-2-[(14S)-14-hydroxypentadecyl]-4-methyl-5-oxo-, (2S,3R,4R)- (9CI) (CA INDEX NAME)

Absolute stereochemistry. Rotation (-).



REFERENCE COUNT: 24 THERE ARE 24 CITED REFERENCES AVAILABLE FOR THIS RECORD. ALL CITATIONS AVAILABLE IN THE RE FORMAT

L5 ANSWER 3 OF 340 CAPLUS COPYRIGHT 2007 ACS on STN
ACCESSION NUMBER: 2001:872136 CAPLUS
DOCUMENT NUMBER: 136:263040
TITLE: From glyceraldehyde to functionalized enantiopure tetrahydronaphthalenes and indans
AUTHOR(S): Hanessian, Stephen; Ma, Jianguo
CORPORATE SOURCE: Department of Chemistry, Universite de Montreal, Montreal, QC, H3C 3J7, Can.
SOURCE: Tetrahedron Letters (2001), 42(50), 8785-8788
CODEN: TELEAY; ISSN: 0040-4039
PUBLISHER: Elsevier Science Ltd.
DOCUMENT TYPE: Journal
LANGUAGE: English
OTHER SOURCE(S): CASREACT 136:263040
GI



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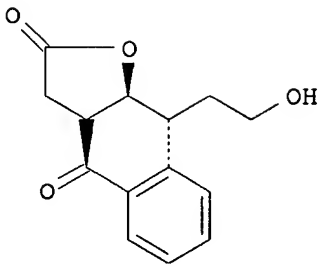

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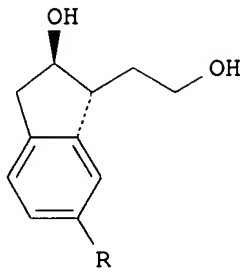


III

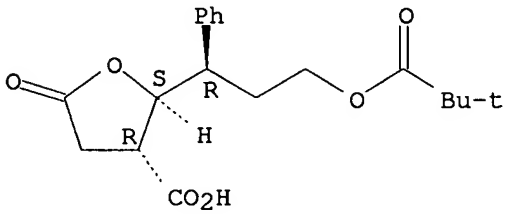
AB Tricyclic tetrahydronaphthalenes comprising cis- and trans-fused lactones, e.g., I and II, and Ar-substituted functionalized indans, e.g., III (R = H, OMe), were synthesized in enantiopure form.

IT 405144-50-5P
RL: RCT (Reactant); SPN (Synthetic preparation); PREP (Preparation); RACT (Reactant or reagent)
(from glyceraldehyde to functionalized enantiopure tetrahydronaphthalenes and indans)

RN 405144-50-5 CAPLUS

CN 3-Furancarboxylic acid, 2-[(1R)-3-(2,2-dimethyl-1-oxopropoxy)-1-phenylpropyl]tetrahydro-5-oxo-, (2S,3R)- (9CI) (CA INDEX NAME)

Absolute stereochemistry.



REFERENCE COUNT: 20 THERE ARE 20 CITED REFERENCES AVAILABLE FOR THIS RECORD. ALL CITATIONS AVAILABLE IN THE RE FORMAT

L5 ANSWER 4 OF 340 CAPLUS COPYRIGHT 2007 ACS on STN

ACCESSION NUMBER: 2001:833302 CAPLUS

DOCUMENT NUMBER: 135:371628

TITLE: Preparation of amino substituted dibenzothiophenes for the treatment of disorders mediated by the neuropeptide Y5 receptor

INVENTOR(S): Block, Michael Howard; Donald, Craig Samuel; Foote, Kevin Michael; Brittain, David Robert

PATENT ASSIGNEE(S): Astrazeneca AB, Swed.; Astrazeneca UK Limited

SOURCE: PCT Int. Appl., 117 pp.
CODEN: PIXXD2

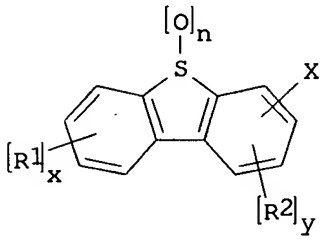
DOCUMENT TYPE: Patent

LANGUAGE: English
FAMILY ACC. NUM. COUNT: 1
PATENT INFORMATION:

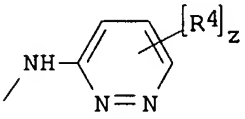
PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
WO 2001085714	A1	20011115	WO 2001-GB1899	20010501 <--
W: AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BY, BZ, CA, CH, CN, CO, CR, CU, CZ, DE, DK, DM, DZ, EE, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, MZ, NO, NZ, PL, PT, RO, RU, SD, SE, SG, SI, SK, SL, TJ, TM, TR, TT, TZ, UA, UG, US, UZ, VN, YU, ZA, ZW				
RW: GH, GM, KE, LS, MW, MZ, SD, SL, SZ, TZ, UG, ZW, AT, BE, CH, CY, DE, DK, ES, FI, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE, TR, BF, BJ, CF, CG, CI, CM, GA, GN, GW, ML, MR, NE, SN, TD, TG				
CA 2406634	A1	20011115	CA 2001-2406634	20010501 <--
EP 1278739	A1	20030129	EP 2001-925687	20010501
R: AT, BE, CH, DE, DK, ES, FR, GB, GR, IT, LI, LU, NL, SE, MC, PT, IE, SI, LT, LV, FI, RO, MK, CY, AL, TR				
BR 2001010548	A	20030401	BR 2001-10548	20010501
JP 2003532723	T	20031105	JP 2001-582315	20010501
NZ 522188	A	20040430	NZ 2001-522188	20010501
ZA 2002008674	A	20040210	ZA 2002-8674	20021025
NO 2002005286	A	20021104	NO 2002-5286	20021104
US 2003225097	A1	20031204	US 2002-275529	20021105
US 6967216	B2	20051122		
US 2005209233	A1	20050922	US 2005-127582	20050512

PRIORITY APPLN. INFO.:
GB 2000-10757 A 20000505
WO 2001-GB1899 W 20010501
US 2002-275529 A1 20021105

OTHER SOURCE(S): MARPAT 135:371628
GI



I

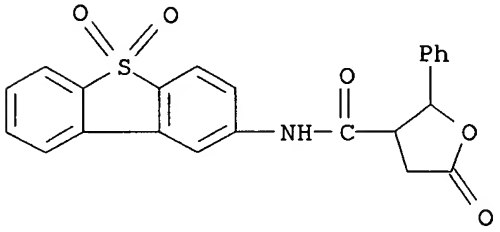


II

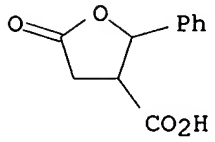
AB The title compds. [I; X = NHCOAR3, II; R1 = CN, halo, CF3, etc.; R2 = halo, CN, OH, etc.; A = NRa, O, a direct bond; Ra = H, alkyl, alkenyl, etc.; R3 = H, alkyl, alkenyl, etc.; R4 = halo, NO2, CN, etc.; x = 0-4; yr = 0-3; z = 0-3; n = 0-2], useful in the treatment of disorders mediated by the neuropeptide Y5 receptor in a warm-blooded animal, such as a human being, were prepared and formulated. Thus, reacting 2-aminodibenzothiophene with 2-(1,2,4-triazol-1-yl)acetic acid in the presence of 1-hydroxybenztriazole and EDAC in DMF afforded I [X = 2-NHCOAR3; A = a direct bond; R3 = (1,2,4-triazol-1-yl)methyl; R1, R2 = H; n = 0]. In general, compds. I showed IC50 of 0.0002-200 μM against neuropeptide Y5 receptor binding.

IT 373354-93-9P
RL: BAC (Biological activity or effector, except adverse); BSU (Biological study, unclassified); SPN (Synthetic preparation); THU (Therapeutic use); BIOL (Biological study); PREP (Preparation); USES (Uses)
(preparation of amino substituted dibenzothiophenes for the treatment of disorders mediated by the neuropeptide Y5 receptor)

RN 373354-93-9 CAPLUS
CN 3-Furancarboxamide, N-(5,5-dioxido-2-dibenzothienyl)tetrahydro-5-oxo-2-phenyl- (9CI) (CA INDEX NAME)



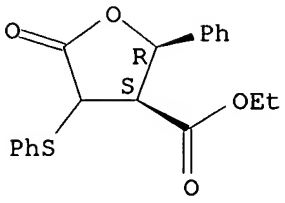
IT 13389-88-3
RL: RCT (Reactant); RACT (Reactant or reagent)
(preparation of amino substituted dibenzothiophenes for the treatment of disorders mediated by the neuropeptide Y5 receptor)
RN 13389-88-3 CAPLUS
CN 3-Furancarboxylic acid, tetrahydro-5-oxo-2-phenyl- (9CI) (CA INDEX NAME)



REFERENCE COUNT: 4 THERE ARE 4 CITED REFERENCES AVAILABLE FOR THIS RECORD. ALL CITATIONS AVAILABLE IN THE RE FORMAT

L5 ANSWER 5 OF 340 CAPLUS COPYRIGHT 2007 ACS on STN
ACCESSION NUMBER: 2001:818371 CAPLUS
DOCUMENT NUMBER: 136:279099
TITLE: Regioselective conjugate addition of thiols to unsymmetric fumaric esters in the presence of a lithium cation
AUTHOR(S): Kamimura, Akio; Kawahara, Fukiko; Omata, Yoji; Murakami, Norikazu; Morita, Rie; Otake, Hirochika; Mitsudera, Hiromasa; Shirai, Masashi; Kakehi, Akikazu
CORPORATE SOURCE: Department of Applied Chemistry, Faculty of Engineering, Yamaguchi University, Ube, 755-8611, Japan
SOURCE: Tetrahedron Letters (2001), 42(48), 8497-8500
CODEN: TELEAY; ISSN: 0040-4039
PUBLISHER: Elsevier Science Ltd.
DOCUMENT TYPE: Journal
LANGUAGE: English
OTHER SOURCE(S): CASREACT 136:279099
AB Unsym. substituted fumaric esters underwent highly regioselective conjugate addition of thiols in the presence of a lithium cation in non-coordinative media.
IT 405873-34-9P
RL: SPN (Synthetic preparation); PREP (Preparation)
(regioselective conjugate addition of thiols to unsym. fumaric esters in the presence of a lithium cation)
RN 405873-34-9 CAPLUS
CN 3-Furancarboxylic acid, tetrahydro-5-oxo-2-phenyl-4-(phenylthio)-, ethyl ester, (2R,3S)-rel- (9CI) (CA INDEX NAME)

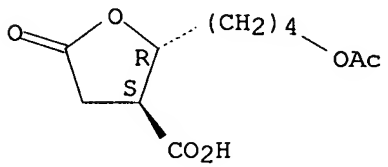
Relative stereochemistry.



REFERENCE COUNT: 16 THERE ARE 16 CITED REFERENCES AVAILABLE FOR THIS RECORD. ALL CITATIONS AVAILABLE IN THE RE FORMAT

L5 ANSWER 6 OF 340 CAPLUS COPYRIGHT 2007 ACS on STN
ACCESSION NUMBER: 2001:761306 CAPLUS
DOCUMENT NUMBER: 136:150747
TITLE: Nickel-catalyzed homoallylation of aldehydes in the presence of water and alcohols
AUTHOR(S): Kimura, Masanari; Ezoe, Akihiro; Tanaka, Shuji; Tamaru, Yoshinao
CORPORATE SOURCE: Department of Applied Chemistry, Faculty of Engineering, Nagasaki University, Nagasaki, 852-8521, Japan
SOURCE: Angewandte Chemie, International Edition (2001), 40(19), 3600-3602
CODEN: ACIEF5; ISSN: 1433-7851
PUBLISHER: Wiley-VCH Verlag GmbH
DOCUMENT TYPE: Journal
LANGUAGE: English
OTHER SOURCE(S): CASREACT 136:150747
AB Aldehydes and cyclic hemiacetals were efficiently homoallylated in presence of Ni(acac)2 and Et3B in THF. The reaction proceeded in reasonable yields with aqueous glutaraldehyde.
IT 394217-79-9P
RL: SPN (Synthetic preparation); PREP (Preparation)
(Nickel acetylacetonate-triethylborane-catalyzed homoallylation of aldehydes in the presence of water and alcs.)
RN 394217-79-9 CAPLUS
CN 3-Furancarboxylic acid, 2-[4-(acetyloxy)butyl]tetrahydro-5-oxo-, (2R,3S)-rel- (9CI) (CA INDEX NAME)

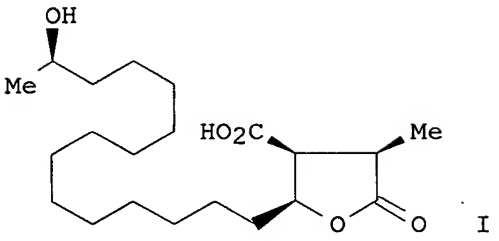
Relative stereochemistry.



REFERENCE COUNT: 21 THERE ARE 21 CITED REFERENCES AVAILABLE FOR THIS RECORD. ALL CITATIONS AVAILABLE IN THE RE FORMAT

L5 ANSWER 7 OF 340 CAPLUS COPYRIGHT 2007 ACS on STN
ACCESSION NUMBER: 2001:667445 CAPLUS
DOCUMENT NUMBER: 136:17754
TITLE: Glycoside esters from lichens of central Asia
AUTHOR(S): Rezanka, T.; Guschina, I. A.
CORPORATE SOURCE: Institute of Microbiology, Prague, 14220, Czech Rep.
SOURCE: Phytochemistry (2001), 58(3), 509-516
CODEN: PYTCAS; ISSN: 0031-9422

PUBLISHER: Elsevier Science Ltd.
DOCUMENT TYPE: Journal
LANGUAGE: English
GI



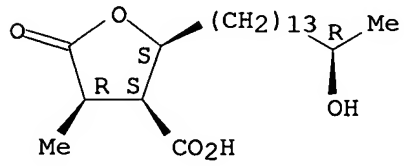
I

AB Ten compds. (e.g. I) isolated from the extract of the central Asian lichens comprised new glycosides and glycoside esters having 18R-hydroxy-dihydroalloprotolichesterinic, 18S-hydroxy-dihydroprotolichesterinic and 18S-hydroxy-neodihydroprotolichesterinic acids, as the aglycons and a saccharide moiety linked at C-18 and also at C-21 made by glucose, xylose or rhamnose. The structures were elucidated using extensive spectroscopic anal. (1D and 2D NMR, MS, IR, UV and ORD) and by biochem. methods.

IT 379224-46-1P, 18R-Hydroxydihydroalloprotolichesterinic acid
379224-47-2P, 18S-Hydroxydihydroprotolichesterinic acid
379224-48-3P, 18S-Hydroxyneodihydroprotolichesterinic acid
379224-49-4P 379224-50-7P 379224-52-9P
379224-53-0P 379224-54-1P 379224-55-2P
379224-56-3P
RL: NPO (Natural product occurrence); PRP (Properties); PUR (Purification or recovery); BIOL (Biological study); OCCU (Occurrence); PREP (Preparation)
(glycoside esters from lichens of central Asia)

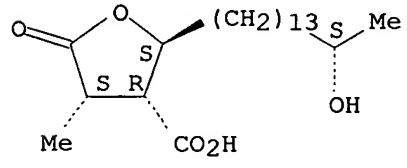
RN 379224-46-1 CAPLUS
CN 3-Furancarboxylic acid, tetrahydro-2-[(14R)-14-hydroxypentadecyl]-4-methyl-5-oxo-, (2S,3S,4R)- (9CI) (CA INDEX NAME)

Absolute stereochemistry. Rotation (-).



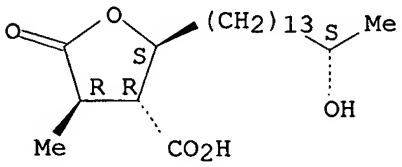
RN 379224-47-2 CAPLUS
CN 3-Furancarboxylic acid, tetrahydro-2-[(14S)-14-hydroxypentadecyl]-4-methyl-5-oxo-, (2S,3R,4S)- (9CI) (CA INDEX NAME)

Absolute stereochemistry. Rotation (+).



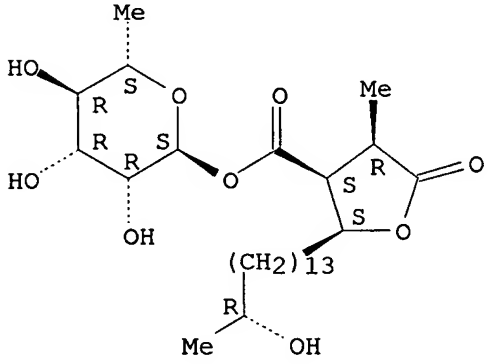
RN 379224-48-3 CAPLUS
CN 3-Furancarboxylic acid, tetrahydro-2-[(14S)-14-hydroxypentadecyl]-4-methyl-5-oxo-, (2S,3R,4R)- (9CI) (CA INDEX NAME)

Absolute stereochemistry. Rotation (-).



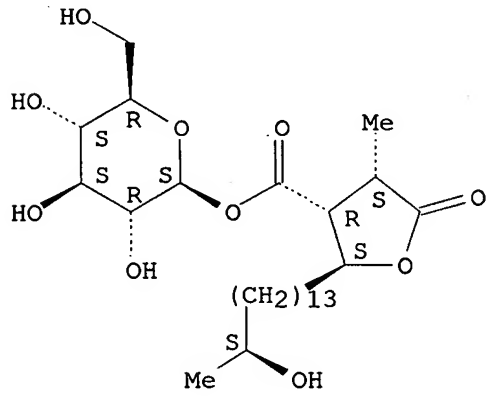
RN 379224-49-4 CAPLUS
CN α-L-Mannopyranose, 6-deoxy-, 1-[(2S,3S,4R)-tetrahydro-2-[(14R)-14-hydroxypentadecyl]-4-methyl-5-oxo-3-furancarboxylate] (9CI) (CA INDEX NAME)

Absolute stereochemistry. Rotation (-).



RN 379224-50-7 CAPLUS
CN β-D-Glucopyranose, 1-[(2S,3R,4S)-tetrahydro-2-[(14S)-14-hydroxypentadecyl]-4-methyl-5-oxo-3-furancarboxylate] (9CI) (CA INDEX NAME)

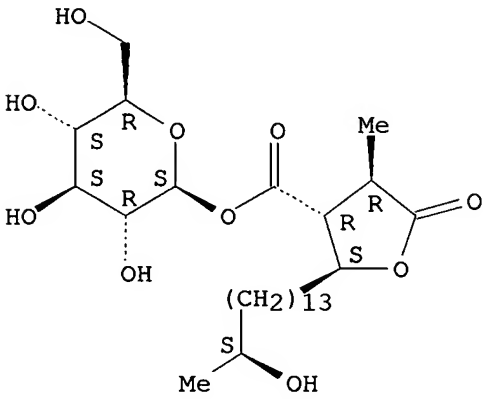
Absolute stereochemistry. Rotation (-).



RN 379224-52-9 CAPLUS
CN β-D-Glucopyranose, 1-[(2S,3R,4R)-tetrahydro-2-[(14S)-14-hydroxypentadecyl]-4-methyl-5-oxo-3-furancarboxylate] (9CI) (CA INDEX

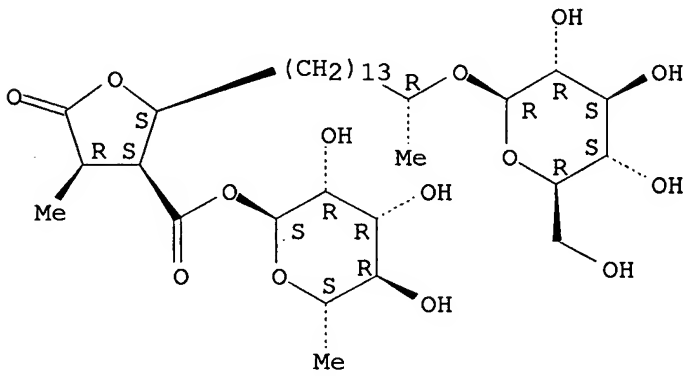
NAME)

Absolute stereochemistry. Rotation (-).



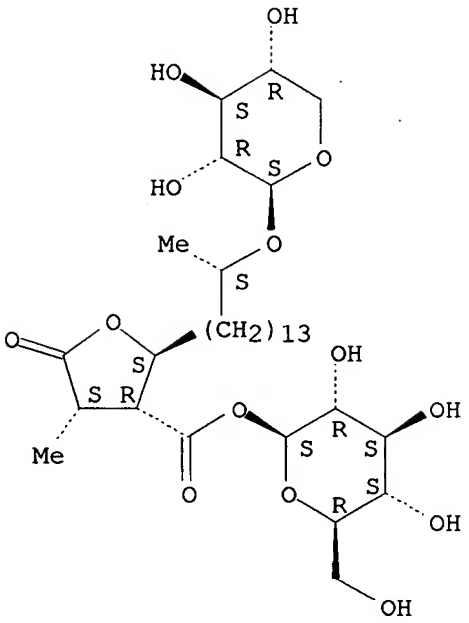
RN 379224-53-0 CAPLUS
CN α-L-Mannopyranose, 6-deoxy-, 1-[(2S,3S,4R)-2-[(14R)-14-(β-D-glucopyranosyloxy)pentadecyl]tetrahydro-4-methyl-5-oxo-3-furancarboxylate] (9CI) (CA INDEX NAME)

Absolute stereochemistry. Rotation (-).



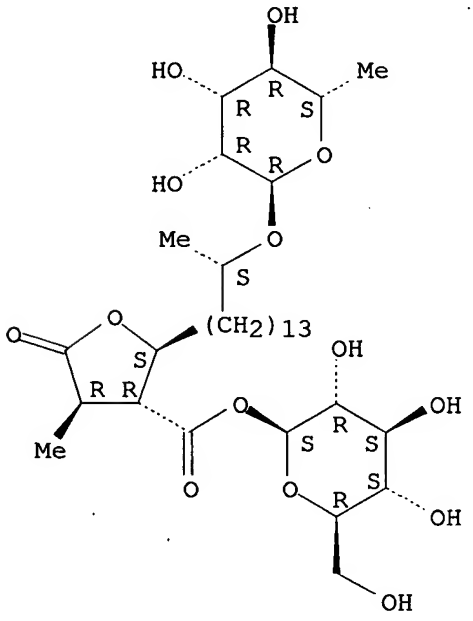
RN 379224-54-1 CAPLUS
CN β-D-Glucopyranose, 1-[(2S,3R,4S)-tetrahydro-4-methyl-5-oxo-2-[(14S)-14-(β-D-xylopyranosyloxy)pentadecyl]-3-furancarboxylate] (9CI) (CA INDEX NAME)

Absolute stereochemistry. Rotation (-).



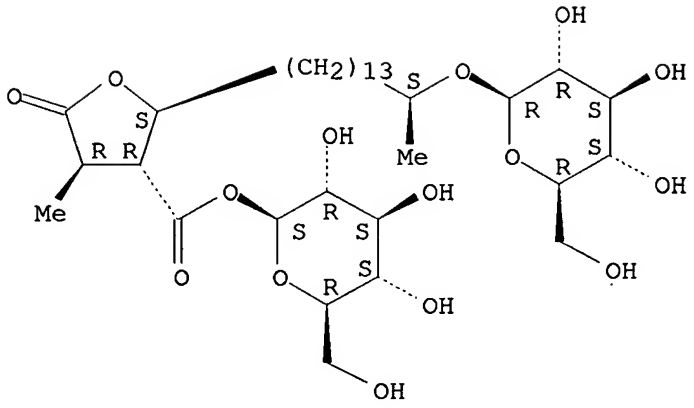
RN 379224-55-2 CAPLUS
CN β-D-Glucopyranose, 1-[(2S,3R,4R)-2-[(14S)-14-[(6-deoxy-α-L-mannopyranosyl)oxy]pentadecyl]tetrahydro-4-methyl-5-oxo-3-furancarboxylate] (9CI) (CA INDEX NAME)

Absolute stereochemistry. Rotation (-).



RN 379224-56-3 CAPLUS
CN β-D-Glucopyranose, 1-[(2S,3R,4R)-2-[(14S)-14-(β-D-glucopyranosyloxy)pentadecyl]tetrahydro-4-methyl-5-oxo-3-furancarboxylate] (9CI) (CA INDEX NAME)

Absolute stereochemistry. Rotation (-).



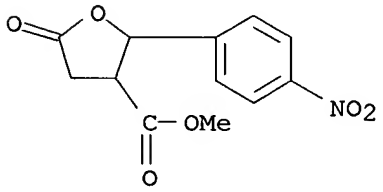
REFERENCE COUNT: 18 THERE ARE 18 CITED REFERENCES AVAILABLE FOR THIS RECORD. ALL CITATIONS AVAILABLE IN THE RE FORMAT

L5 ANSWER 8 OF 340 CAPLUS COPYRIGHT 2007 ACS on STN
ACCESSION NUMBER: 2001:347508 CAPLUS
DOCUMENT NUMBER: 136:69702
TITLE: Preparation and reaction of γ-aryl-γ-butyrolactones
AUTHOR(S): Nishiyama, Takeo; Yamaguchi, Takeshi; Ikuno, Tooru; Miyazawa, Mitsuo
CORPORATE SOURCE: Department of Engineering in Kyushu, Bio-Environmental Course, Kinki University, Japan
SOURCE: Kinki Daigaku Kyushu Kogakubu Kenkyu Hokoku (2001), 29, 51-56
CODEN: KDKKCB; ISSN: 1345-9430
PUBLISHER: Kinki Daigaku Kyushu Kogakubu
DOCUMENT TYPE: Journal
LANGUAGE: English
OTHER SOURCE(S): CASREACT 136:69702

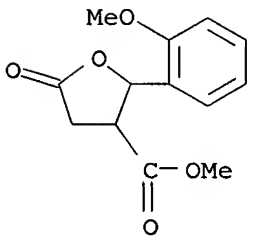
AB Oxidative radical addition of methoxy- or nitrocinnamates with manganic acetate in acetic acid or propionic acid gave γ-aryl-γ-butyrolactones. The γ-aryl-γ-butyrolactones were treated with sodium ethoxide in ethanol to give 3-ethoxycarbonyl-4-methoxy(or nitro)phenyl-3-butenoic acids. Addnl., 3-ethoxycarbonyl-4-methoxy(or nitro)phenyl-3-butenoic acids were refluxed in acetic anhydride in the presence of AcOK to give the substituted naphthoates in moderate yield.

IT 99988-89-3P 385376-40-9P 385376-41-0P
385376-42-1P 385376-43-2P 385376-44-3P
385376-45-4P 385376-46-5P 385376-47-6P
RL: RCT (Reactant); SPN (Synthetic preparation); PREP (Preparation); RACT (Reactant or reagent)
(γ-aryl-γ-butyrolactone preparation and cleavage)

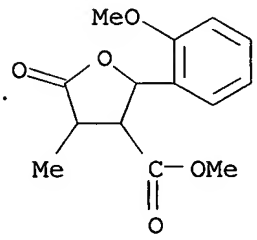
RN 99988-89-3 CAPLUS
CN 3-Furancarboxylic acid, tetrahydro-2-(4-nitrophenyl)-5-oxo-, methyl ester (9CI) (CA INDEX NAME)



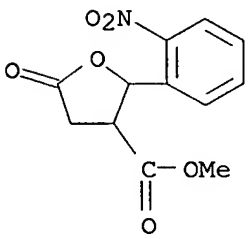
RN 385376-40-9 CAPLUS
CN 3-Furancarboxylic acid, tetrahydro-2-(2-methoxyphenyl)-5-oxo-, methyl ester (9CI) (CA INDEX NAME)



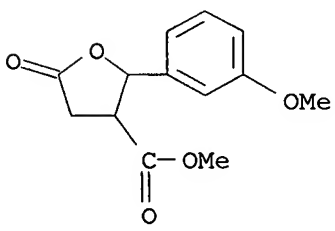
RN 385376-41-0 CAPLUS
CN 3-Furancarboxylic acid, tetrahydro-2-(2-methoxyphenyl)-4-methyl-5-oxo-, methyl ester (9CI) (CA INDEX NAME)



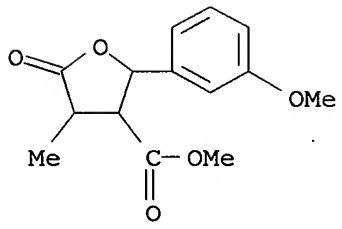
RN 385376-42-1 CAPLUS
CN 3-Furancarboxylic acid, tetrahydro-2-(2-nitrophenyl)-5-oxo-, methyl ester (9CI) (CA INDEX NAME)



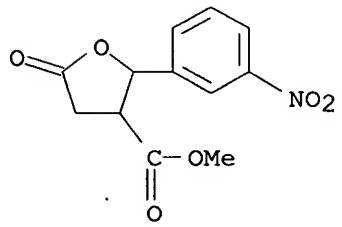
RN 385376-43-2 CAPLUS
CN 3-Furancarboxylic acid, tetrahydro-2-(3-methoxyphenyl)-5-oxo-, methyl ester (9CI) (CA INDEX NAME)



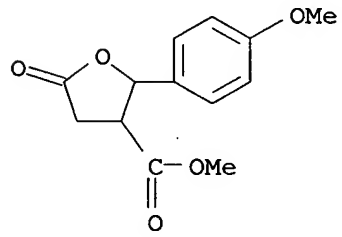
RN 385376-44-3 CAPLUS
CN 3-Furancarboxylic acid, tetrahydro-2-(3-methoxyphenyl)-4-methyl-5-oxo-, methyl ester (9CI) (CA INDEX NAME)



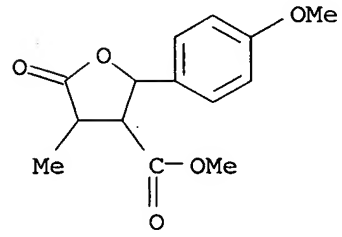
RN 385376-45-4 CAPLUS
CN 3-Furancarboxylic acid, tetrahydro-2-(3-nitrophenyl)-5-oxo-, methyl ester (9CI) (CA INDEX NAME)



RN 385376-46-5 CAPLUS
CN 3-Furancarboxylic acid, tetrahydro-2-(4-methoxyphenyl)-5-oxo-, methyl ester (9CI) (CA INDEX NAME)



RN 385376-47-6 CAPLUS
CN 3-Furancarboxylic acid, tetrahydro-2-(4-methoxyphenyl)-4-methyl-5-oxo-, methyl ester (9CI) (CA INDEX NAME)



REFERENCE COUNT: 16 THERE ARE 16 CITED REFERENCES AVAILABLE FOR THIS RECORD. ALL CITATIONS AVAILABLE IN THE RE FORMAT

L5 ANSWER 9 OF 340 CAPLUS COPYRIGHT 2007 ACS on STN
ACCESSION NUMBER: 2001:321140 CAPLUS
DOCUMENT NUMBER: 135:107173

TITLE: A concise synthesis of (±)-methylenolactocin and the formal synthesis of (±)-phaseolinic acid
AUTHOR(S): Loh, T.-P.; Lye, P.-L.
CORPORATE SOURCE: Department of Chemistry, The National University of Singapore, Singapore, 117543, Singapore
SOURCE: Tetrahedron Letters (2001), 42(20), 3511-3514
CODEN: TELEAY; ISSN: 0040-4039
PUBLISHER: Elsevier Science Ltd.
DOCUMENT TYPE: Journal
LANGUAGE: English
OTHER SOURCE(S): CASREACT 135:107173

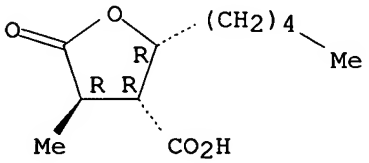
AB (±)-Methylenolactocin was prepared in five steps involving an indium-mediated allylation reaction as the key step.

IT 203514-35-6P, (±)-Phaseolinic acid
RL: PNU (Preparation, unclassified); PREP (Preparation)
(synthesis of (±)-methylenolactocin and formal synthesis of (±)-phaseolinic acid via indium-mediated allylation)

RN 203514-35-6 CAPLUS

CN 3-Furancarboxylic acid, tetrahydro-4-methyl-5-oxo-2-pentyl-, (2R,3R,4R)-rel- (CA INDEX NAME)

Relative stereochemistry.



REFERENCE COUNT: 21 THERE ARE 21 CITED REFERENCES AVAILABLE FOR THIS RECORD. ALL CITATIONS AVAILABLE IN THE RE FORMAT

L5 ANSWER 10 OF 340 CAPLUS COPYRIGHT 2007 ACS on STN
ACCESSION NUMBER: 2001:238464 CAPLUS
DOCUMENT NUMBER: 135:33403
TITLE: Enantioselective Synthesis of (-)-Roccellaric Acid
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CORPORATE SOURCE: Institut fuer Organische Chemie, Universitaet Regensburg, Regensburg, 93053, Germany
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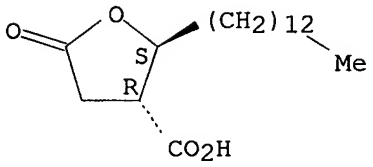
AB A new strategy for the synthesis of anti-4,5-disubstituted γ-butyrolactones starting from inexpensive furan-2-carboxylic Me ester was developed. By applying this methodol., the enantioselective synthesis of (-)-roccellaric acid was accomplished using a copper(I)-catalyzed asym. cyclopropanation, a tin(IV)-catalyzed retroaldol/lactonization sequence of cyclopropanols, and a ruthenium-catalyzed intermol. metathesis reaction as key steps.

IT 152612-37-8P
RL: RCT (Reactant); SPN (Synthetic preparation); PREP (Preparation); RACT (Reactant or reagent)
(asym. synthesis of the γ-butyrolactone (-)-roccellaric acid)

RN 152612-37-8 CAPLUS

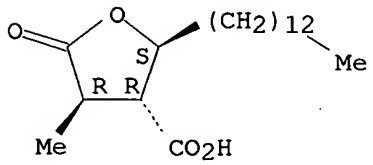
CN 3-Furancarboxylic acid, tetrahydro-5-oxo-2-tridecyl-, (2S,3R)- (9CI) (CA INDEX NAME)

Absolute stereochemistry. Rotation (-).



IT 148676-05-5P, (-)-Roccellaric acid
RL: SPN (Synthetic preparation); PREP (Preparation)
(asym. synthesis of the γ-butyrolactone (-)-roccellaric acid)
RN 148676-05-5 CAPLUS
CN 3-Furancarboxylic acid, tetrahydro-4-methyl-5-oxo-2-tridecyl-, (2S,3R,4R)-(9CI) (CA INDEX NAME)

Absolute stereochemistry. Rotation (-).



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